

TIFLE President

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130

Charleston, WV 25305-0130

740-965-3400 DIVERSATEC RESOURCES INC

SUNBURY OH 43074

10022 CHESHIRE RD

*322154941

Solicitation

NUMBER ERP140039 PAGE 1

ADDRESS CORRESPONDENCE TO ATTENTION OF

GUY NISBET 304-558-2596

STATE AUDITOR'S OFFICE s RECORDS MGT FACILITY 4916 KANAWHA BLVD., E. MALDEN, WV

25306-6330

304-926-1717

DATE PRINTED 03/05/2014 BID OPENING DATE 03/18/2014 BID OPENING TIME 1:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNITPRICE AMOUNT ' NO 0001 HA 205-05 \$735.79 \$264,884.40 ALL-IN-ONE DESK TOP COMPUTERS REQUEST FOR QUOTATION (RFO) THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA ENTERPRISE RESOURCE PLANNING BOARD, IS SOLICITING BIDS FOR A "ONE-TIME" PURCHASE OF \$60 "ALL IN ONE" \$TYLE DESK TOP COMPUTERS, PER THE SPECIFICATIONS AND TERMS & CONDITIONS AS ATTACHED. \$264,884.40 THIS IS THE END OF RFQ ERP140039 ***** TOTAL: 03/18/14 11:38:38AM West Virginia Purchasing Division SIGNATURE 740-965-3400 m. Frast 3/14/2014

ADDRESS CHANGES TO BE NOTED ABOVE 20-2059989 WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

- REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids.
 Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
- MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of
 the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will
 result in bid disqualification.

3.	PREBID MEETING: The item identified below shall apply to this Solicitation.				
	$\langle \rangle$	A pre-bid meeting will not be held prior to bid opening.			
		A NON-MANDATORY PRE-BID meeting will be held at the following place and time:			
		A MANDATORY PRE-BID meeting will be held at the following place and time:			
		with the field at the following place and time:			

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing. Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are non-binding.

Question Submission Deadline:

March 12th, 2014 at 10:00 AM. EST.

Submit Questions to:

Guy Nisbet, Senior Buyer 2019 Washington Street, East Charleston, WV 25305

Fax: 304.558.3970

Email: Guy.L.Nisbet@WV.Gov

- 5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including that made at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
- 6. BID SUBMISSION: All bids must be signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include hand delivery, delivery by courier, or facsimile. The bid delivery address is:

Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

The bid should co	ontain the information	n listed below	on the face of	the envelope or	the bid may not be
considered:					
	CEATER	IT			

SEALED BID BUYER:	Guy Nisbet	
SOLICITATION	NO.: ERP140039	
BID OPENING D)ATE: 3/18/14	
BID OPENING T		
FAX NUMBER:	304-558-3970	

In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus N/A convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE:	Technical
	Cost

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when time stamped by the official Purchasing Division time clock.

Bid Opening Date and Time:

March 18th, 2014 at 1:30 PM. EST.

Bid Opening Location:

Department of Administration, Purchasing Division

2019 Washington Street East Charleston, WV 25305-0130

- 8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
- BID FORMATTING: Vendor should type or electronically enter the information onto its bid to
 prevent errors in the evaluation. Failure to type or electronically enter the information may result
 in bid disqualification.

GENERAL TERMS AND CONDITIONS:

- CONTRACTUAL AGREEMENT: Issuance of a Purchase Order signed by the Purchasing Division
 Director, or his designee, and approved as to form by the Attorney General's office constitutes
 acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's
 signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions
 contained in this Contract.
- DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings
 attributed to them below. Additional definitions may be found in the specifications included with this
 Solicitation/Contract.
 - 2.1 "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
 - 2.2 "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods and services requested in the Solicitation.
 - 2.3 "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.
 - 2.4 "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.
 - 2.5 "Purchase Order" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the successful bidder and Contract holder.
 - 2.6 "Solicitation" means the official solicitation published by the Purchasing Division and identified by number on the first page thereof.
 - 2.7 "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
 - 2.8 "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3.	CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:
	Term Contract
	Initial Contract Term: This Contract becomes effective on
	and extends for a period of year(s).

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal must be submitted to the Purchasing Division Director thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to successive one (1) year periods. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

Reasonable Time Extension: At the sole discretion of the Purchasing Division Director, and with approval from the Attorney General's office (Attorney General approval is as to form only), this Contract may be extended for a reasonable time after the initial Contract term or after any renewal term as may be necessary to obtain a new contract or renew this Contract. Any reasonable time extension shall not exceed twelve (12) months. Vendor may avoid a reasonable time extension by providing the Purchasing Division Director with written notice of Vendor's desire to terminate this Contract 30 days prior to the expiration of the then current term. During any reasonable time extension period, the Vendor may terminate this Contract for any reason upon giving the Purchasing Division Director 30 days written notice. Automatic extension of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases, but Attorney General approval may be required.

Release Order Limitations: In the event that this contract permits release orders, a release order may only be issued during the time this Contract is in effect. Any release order issued within one year of the expiration of this Contract shall be effective for one year from the date the release order is issued. No release order may be extended beyond one year after this Contract has expired.

Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within twenty eight (28) calendar days.

		One Time Purchase: The term of this Contract shall run from the issuance of the Purchase Order until all of the goods contracted for have been delivered, but in no event shall this Contract extend for more than one fiscal year.
		Other: See attached.
4.	receivi	CE TO PROCEED: Vendor shall begin performance of this Contract immediately upon ng notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the recuted Purchase Order will be considered notice to proceed
5.	-	NTITIES: The quantities required under this Contract shall be determined in accordance with egory that has been identified as applicable to this Contract below.
		Open End Contract: Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
		Service: The scope of the service to be provided will be more clearly defined in the specifications included herewith.
		Combined Service and Goods: The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
	\checkmark	One Time Purchase: This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

- 6. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.
- 7. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
- 8. REQUIRED DOCUMENTS: All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

	BID BOND: All Vendors shall furnish a bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.
	PERFORMANCE BOND: The apparent successful Vendor shall provide a performance bond in the amount of . The performance bond must be issued and received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.
	LABOR/MATERIAL PAYMENT BOND: The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be issued and delivered to the Purchasing Division prior to Contract award.
certific or irre same labor/r	of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide ed checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, vocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and material payment bond will only be allowed for projects under \$100,000. Personal or business are not acceptable.
	MAINTENANCE BOND: The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.
	WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall have appropriate workers' compensation insurance and shall provide proof thereof upon request.
Transference of the second	INSURANCE : The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award and shall list the state as a certificate holder:
	Commercial General Liability Insurance: or more.
	Builders Risk Insurance: builders risk – all risk insurance in an amount equal to 100% of the amount of the Contract.

The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed above.
LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that

9. LITIGATION BOND: The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

requirement is listed above.

- 10. ALTERNATES: Any model, brand, or specification listed herein establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.
- 11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or

other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

12. LIQUIDATED DAMAGES: Vendor shall pay liquidated damages in the amount for

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

- 13. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Purchase Order, upon receipt.
- 14. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee if applicable.
- 15. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
- 16. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July I of the fiscal year for which funding has not been appropriated or otherwise made available.
- 17. PAYMENT: Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To."
- 18. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
- 19. DELIVERY: All quotations are considered freight on board destination ("F.O.B. destination") unless alternate shipping terms are clearly identified in the bid. Vendor's listing of shipping terms that contradict the shipping terms expressly required by this Solicitation may result in bid disqualification.
- 20. INTEREST: Interest attributable to late payment will only be permitted if authorized by the West Virginia Code. Presently, there is no provision in the law for interest on late payments.
- 21. PREFERENCE: Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Resident Vendor Certification form has been attached hereto to allow Vendor to apply for the preference. Vendor's

- failure to submit the Resident Vendor Certification form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.
- 22. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid on or after July 1, 2012, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to submission of its bid to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority-owned business shall be applied in accordance with W. Va. CSR § 148-22-9.
- 23. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 24. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
- 25. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 26. TIME: Time is of the essence with regard to all matters of time and performance in this Contract.
- 27. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
- 28. COMPLIANCE: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendors acknowledge that they have reviewed, understand, and will comply with all applicable law.
- 29. PREVAILING WAGE: On any contract for the construction of a public improvement, Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established by the West Virginia Division of Labor under West Virginia Code §§ 21-5A-1 et seq. and available at http://www.sos.wv.gov/administrative-law/wagerates/Pages/default.aspx. Vendor shall be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage

- requirements are applicable. The required contract provisions contained in West Virginia Code of State Rules § 42-7-3 are specifically incorporated herein by reference.
- 30. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.
- 31. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary, no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.
- 32. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
- 33. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
- 34. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
- 35. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
- 36. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
- 37. BANKRUPTCY: In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

38. [RESERVED]

- 39. CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/default.html.
- 40. DISCLOSURE: Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code § 29B-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. In addition, a legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

- 41. LICENSING: In accordance with West Virginia Code of State Rules §148-1-6.1.7, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.
- 42. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Purchase Order from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired

by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

43. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid for the same material, supplies, equipment or services; (2) that its bid is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this RFQ in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

The individual signing this bid on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

- 44. PURCHASING CARD ACCEPTANCE: The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.
 - Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.
- 45. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.
- 46. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered

by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

- 47. PURCHASING AFFIDAVIT: In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.
- 48. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE: This Contract may be utilized by and extends to other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 49. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire any interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

50.		ORTS: Vendor shall provide the Agency and/or the Purchasing Division with the ring reports identified by a checked box below:
		Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract expenditures by agency, etc.
	Total State of the	Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.requisitions@wv.gov .

51. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information

to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision.

The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304)558-9911 for more information.

- 52. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:
 - a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
 - b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.

The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:

- a. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
- b. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

53. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

REQUEST FOR QUOTATION ERP140039 – "All in One" Style Desktop Computer

SPECIFICATIONS

- PURPOSE AND SCOPE: The West Virginia Purchasing Division is soliciting bids on behalf of WV Enterprise Resource Planning Board to establish a contract for the one time purchase of 360 "All in One" style desktop computers.
- DEFINITIONS: The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
 - 2.1 "Contract Item" means personal computer
 - 2.2 "Pricing Page" means the pages upon which Vendor should list its proposed price for the Contract Items in the manner requested. The Pricing Page is either included on the last page of this RFQ or attached hereto as Exhibit A.
 - 2.3 "RFQ" means the official request for quotation published by the Purchasing Division and identified as ERP140039.

3. GENERAL REQUIREMENTS:

- 3.1 Mandatory Contract Item Requirements: Contract Item must meet or exceed the mandatory requirements listed below.
 - 3.1.1 "All in One" style desktop computer Dell Inspiron One 2020 Consumer Grade (or equal), not Business Grade
 - 3.1.1.1 Microsoft Windows 7 or 8 minimum
 - 3.1.1.2 Intel or AMD compatible processor or equal
 - 3.1.1.3 Intel HD graphics (integrated) or equal
 - 3.1.1.4 Touch or non-touch based 20" or larger diagonal widescreen WLED minimum or equal
 - 3.1.1.5 Standard configurations: Memory 4GB minimum
 - 3.1.1.6 Integrated 10/100/1000 NIC minimum
 - 3.1.1.7 Built-in support for 802.11 b, g, and n wireless minimum
 - 3.1.1.8 USB Standard Keyboard or equal
 - 3.1.1.9 USB optical scroll mouse: Two buttons with scroll wheel acting as third button or equal
 - 3.1.1.10 Hard drive: 250GB minimum
 - 3.1.1.11 Optical drive: CD-ROM or DVD-ROM or equal

REQUEST FOR QUOTATION ERP140039 - "All in One" Style Desktop Computer

- 3.1.1.12 USB 2.0 (minimum of 3 ports) or equal
- 3.1.1.13 Integrated sound minimum
- 3.1.1.14 One power connector/cable
- 3.1.1.15 Hardware Parts Warranty, 1 year minimum

4. CONTRACT AWARD:

- 4.1 Contract Award: The Contract is intended to provide Agencies with a purchase price for the Contract Items. The Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.
- 4.2 Pricing Page: Vendor should complete the Pricing Page Exhibit "A" by supplying the price per unit and then the extended price (unit price multiplied number of units). Vendor should complete the Pricing Page in full as failure to complete the Pricing Page in its entirety may result in Vendor's bid being disqualified.

Notwithstanding the foregoing, the Purchasing Division may correct errors as it deems appropriate. Vendor should type or electronically enter the information into the Pricing Page to prevent errors in the evaluation.

5. PAYMENT:

5.1 Payment: Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.

6. DELIVERY AND RETURN:

- 6.1 Shipment and Delivery: Vendor shall ship the Contract Items immediately after being awarded this Contract and receiving a purchase order or notice to proceed. Vendor shall deliver the Contract Items within twenty-eight (28) calendar days after receiving a purchase order or notice to proceed. Contract Items must be delivered to Agency at 4916 Kanawha Blvd E, Malden, WV 25306-6330.
- 6.2 Late Delivery: The Agency placing the order under this Contract must be notified in writing if the shipment of the Contract Items will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the Contract, and/or obtaining the Contract Items from a third party.

REQUEST FOR QUOTATION ERP140039 – "All in One" Style Desktop Computer

Any Agency seeking to obtain the Contract Items from a third party under this provision must first obtain approval of the Purchasing Division.

- 6.3 **Delivery Payment/Risk of Loss:** Vendor shall deliver the Contract Items F.O.B. destination to the Agency's location.
- 6.4 Return of Unacceptable Items: If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable, or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the Agency with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.
- 6.5 Return Due to Agency Error: Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

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Item	DESCRIPTION	ALTERNATE BID BRAND	Alternate MODEL NO	UNIT OF MEASURE	UNIT PRICE	QπV	EXTENDED COST
FC - 2 f s	loga or AMD competitive presentation of equal	HP	HP ProOne 400		\$735.79		\$264,884.40
Wartendy	Mandware Parts Were only A year numinimber equal	НР	3 year mfg warranty included		included		The state of the s

Diversatec Resou	rces,	IIIC.
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Vendor/Company Name (Perst)

Carmen M. Frost

3-14-14

740-965-3400

Phone

curmen. Frost o diversatec.net

(0.3)

4-6 weeks/ARO

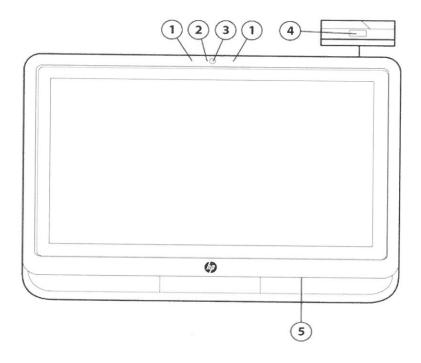
Schwere Estamate ARO

PLEASE NOTE:

The Configuration has a 500 GB
HARD drive And 3/3/3 MAINTENANCE AS
the original request. We reduced one
price to you.

Overview

HP ProOne 400 G1 All-in-One Business PC

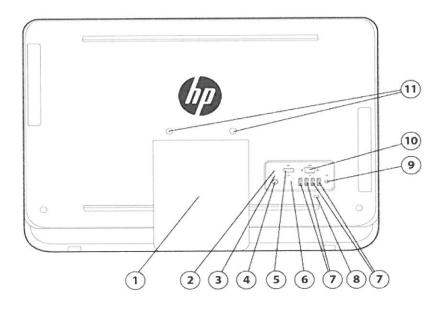


FRONT

- Microphones (optional)
- Webcam activity LED
- 3. Webcam (optional)
- 4. Power button
- 5. Speakers

Overview

HP ProOne 400 G1 All-in-One Business PC



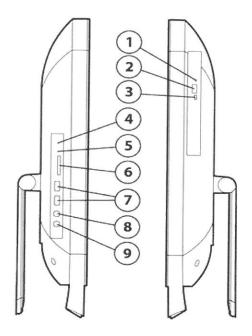
BACK

- 1. Stand
- 2. Security screw
- 3. Power connector LED indicator
- 4. Power connector
- 5. DisplayPort
- 6. RJ-45 Gigabit Ethernet port
- 7. (4) USB 2.0 ports
- 8. Security lock slot
- 9. Stereo audio line out
- 10. Serial RS-232 port
- 11. VESA mount

QuickSpecs

Overview

HP ProOne 400 G1 All-in-One Business PC



SIDE

- 1. Optical Disc Drive (optional)
- 2. Optical eject button
- Optical activity LED
- 4. Hard Disc Drive activity LED
- 5. Media Card Reader activity LED
- SD Media Card Reader (optional)
- 7. (2) USB 3.0 Ports, including 1 fast charging port
- 8. Microphone jack
- 9. Headphone jack

Overview

At A Glance

- Windows 7 or Windows 8.1
- 21.5 inch Touch diagonal widescreen WLED backlit LCD
- Integrated all-in-one form factor
- Intel® H81 Express chipset
- Intel 4th Generation Core™ processors
- Integrated Intel HD Graphics
- Integrated Realtek RTL8151GH-CG GbE Ethernet Controller
- Optional wireless connectivity:
 - o Intel Dual Band Wireless-N 7260 (mini PCI Express)
 - Intel 802.11 a/b/g/n
 - O WLAN and Bluetooth Combo Card
 - HP 802.11 a/b/g/n Bluetooth® 4.0
- WiDi support (with Intel 7260 WLAN and Intel® HD Graphics)
- Optional Integrated 1 MP webcam & dual microphone array
- Business quality speakers
- DTS Sound +™
- Up to 16 GB of DDR3 SDRAM, dual channel memory support, two SODIMM slots
- 256GB Self-Encrypting Solid State Drive, 500GB Self-encrypting Drive, 1TB Solid State Hybrid Drive Optional Slim Tray-load SuperMulti DVD Writer, DVD-ROM, or BDXL Blu-ray Writer Optical Disc Drive
- Optional SD Media Card Reader
- Serial port
- DisplayPort out with multi-stream
- Integrated VESA 100 x 100 mounting holes
- Skype Ready
- Low Halogen
- ENERGY STAR® qualified. EPEAT® registered where applicable/supported. See www.epeat.net for registration status by country.
- CCC, CECP & SEPA Certified



OPERATING SYSTEM

Preinstalled

Windows 8.1 Pro (64-bit)* Windows 8.1 (64-bit)* Windows 7 Professional (32-bit)**

Windows 7 Professional (64-bit)** Windows 7 Professional (32-bit) (available through downgrade rights from Windows 8.1 Pro)*** Windows 7 Professional (64-bit) (available through downgrade rights from Windows 8.1 Pro)***

Windows 7 Home Premium (32-bit)** Windows 7 Home Premium (64-bit)** Windows 7 Home Basic (32-bit)*

FreeDOS

Novell SUSE Linux Enterprise Desktop 11

*Not all features are available in all editions of Windows 8.1. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8.1 functionality. See http://www.microsoft.com.

**Not all features are available in all editions of Windows 7. This system may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

***This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 8.1 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

PROCESSOR

Intel® 4th Generation Core™ i7 Processors

Intel® Core™ i7-4770T

Up to 3.7 GHz Max. Turbo Frequency (2.5 GHz base frequency), 8 MB cache, 4 cores, 8 threads

Intel HD Graphics 4600

Supports DDR3 memory up to 1600 MT/s data rate

Intel Stable Image Platform Program (SIPP)

Intel® 4th Generation Core™ i5 Processors

Intel® Core™ i5-4670T

Up to 3.3 GHz Max. Turbo Frequency (2.3 GHz base frequency), 6 MB cache, 4 cores, 4 threads Intel HD Graphics 4600

Supports DDR3 memory up to 1600 MT/s data rate

Intel Stable Image Platform Program (SIPP)

Intel® Core™ i5-4570T

Up to 3.6 GHz Max. Turbo Frequency (2.9 GHz base frequency), 4 MB cache, 2 cores, 4 threads

Intel HD Graphics 4600

Supports DDR3 memory up to 1600 MT/s data rate

Intel Stable Image Platform Program (SIPP)

Intel® 4th Generation Core™ i3 Processors

Intel® Core™ i3-4330 T

3.0 GHz base frequency, 4 MB cache, 2 cores, 4 threads

Supports DDR3 memory 1600 MT/s data rate

Intel HD Graphics 4600

Intel® Core™ i3-4130T

2.9 GHz base frequency, 3 MB cache, 2 cores, 4 threads

Supports DDR3 memory 1600 MT/s data rate

Intel HD Graphics 4400

Intel® 4th Generation Pentium® Processors

Intel® Pentium® G3420T

2.7 GHz base frequency, 3 MB cache, 2 cores, 2 threads

Intel HD Graphics

Supports DDR3 memory 1600 MT/s data rate



Intel® Pentium® G3220T
2.6 GHz base frequency, 3 MB cache, 2 cores, 2 threads
Intel HD Graphics
Supports DDR3 memory 1333 MT/s data rate

Intel® 4th Generation Celeron® Processors

Intel® Celeron® G1820T
2.4 GHz base frequency, 2 MB cache, 2 cores, 2 threads
Intel HD Graphics
Supports DDR3 memory 1333 MT/s data rate

CHIPSET

Intel® H81 Express

SMBIOS

System Management BIOS, previously known as DMI BIOS, is used to store system management information.

HP BIOSphere

Key features of the HP BIOS include:

- Deployment and manageability HP BIOS provides several technologies that help integrate the HP ProOne 400 Business PC into the enterprise, such as PXE, and F10 Setup support for 12 languages.
- Support UEFI specification 2.3.1
- Thermal and power management The HP BIOS provides and enables thermal and power management technologies so component temperatures are managed for high reliability and to assist in operating the HP Business Desktop computer in any enterprise environment.
- Thermal Controlled Fans Automatic or manual controlled fan speeds for cooling and acoustic performance
- Serviceability HP BIOS provides diagnostic and detailed service information.
- Upgrades and recovery HP BIOS provides numerous ways to upgrade HP Business Desktop computers, including BIOS updates from within DOS (DOSFlash), BIOS updates from within Windows (HPQFlash), HP Client Manager, and fail-safe recovery (Emergency Boot Block Recovery). In addition, the HP Business Desktop BIOS Utilities tool enables replicated BIOS setup throughout the Enterprise; it is available from within the BIOS F10 setup and from the support website.
- HP BIOS uses PKI signing of the BIOS for trusted BIOS upgrades and recovery.

Additional HP BIOS Features:

- Power-On password Helps prevent an unauthorized user from powering on the system.
- Administrator password Also known as the setup password, this helps prevent unauthorized changes to the system configuration. If the administrator
 password is not known, the BIOS version cannot be changed and changes cannot be made to BIOS settings using F10 setup or under the OS.
- Advanced Configuration and Power Interface (ACPI) Represents a significant innovation in power and configuration management, allowing operating
 systems and applications to manage power based on activity and usage. HP Pro models use ACPI to provide power conservation features.
- S5 Max Power Savings setting supports EU Lot6 requirement and allows the computer to power down below 1W is S5 (when turned off). When S5 Max Power Savings feature is enabled power to slots is turned off along with WOL functionality.
- Master Boot Record Security Helps to prevent changes and/or infections to the Master Boot Record caused by viruses or malicious code.
- HP BIOS Protection prevents unauthorized updates or changes to the BIOS due to malware, viruses, or malicious BIOS updates. Based on NIST SP800-147 policy guidelines.

GRAPHICS

Integrated (depends on processor)

Intel HD Graphics: 4600 or 4400. Please see specific processors for graphics configuration.

Graphics controller

Intel® Processor Graphics

DisplayPort

Support for 1 external display

Memory

Up to 1.8GB DDR3

Supported Graphics APIs

DX11.1, OpenGL 4.0, OpenCL 1.2, full 1080p Blu-Ray Disc (H264) playback in hardware



WIRELESS DISPLAY

WiDi support with Intel Dual Band Wireless-N 7260 (mini PCI Express) and Intel® HD graphics

Desktop system requirements for Intel® Wireless Display

System Component Requirement

Processor 4th generation Intel® Core processor

Graphics Intel® HD Graphics

Wireless Intel Dual Band Wireless-N 7260

Software Intel® My WiFi Technology and Intel® Wireless Display must be pre-installed and enabled OS* Windows 7 32-bit/64-bit Home Premium, Ultimate, Professional; Windows 7 32-bit Home

DISPLAY

Six camera Optical Touch; five Touch points

21.5" diagonal Wide Viewing Angle widescreen WLED backlit LCD

Display Panel Type Wide Viewing Angle WLED Backlit LCD

Viewable image area (H x V) (mm) (min) 476.064 x 267.786 Screen opening (H x V) (mm) 517.8 ×309.3 Resolution(H x V) 1920 x 1080 Aspect ratio 16:9

Contrast ratio (typical) 1000:1 Brightness (typical) 250nits (cd/m2) Viewing angle (typical) R/L 178°, U/D 178° Pixel pitch (H x V) (mm) 0.248 x 0.248 Backlight lamp life (to half brightness)

30,000 hours minimum

Color support Over 16 million colors (through FRM)

Anti-glare

Default color temperature Warm (6500K)

NOTE: All performance specifications represent the typical specifications provided by HP's component

manufacturers; actual performance may vary either higher or lower.

Adjustable Tilt Stand/Tilt Angle 10° to +25° to the vertical plane

WEBCAM & MIC

Optional integrated 1 MP webcam & dual microphone array; maximum resolution of 1280x720

STORAGE

3.5" SATA Hard Drive

500 GB, 7200 rpm, SATA 6.0 Gb/s, SMART IV 1 TB, 7200 rpm, SATA 6.0 Gb/s, SMART IV

2.5" SATA Hard Drive

500 GB, 7200 rpm, SATA 6.0 Gb/s, SMART IV

2.5" Self-Encrypting Solid State Drive

120 GB Intel Pro 1500, SATA, Self-Encrypting Opal 1 Solid State Drive

128 GB, SATA, Self-Encrypting Opal 2 Solid State Drive

180 GB Intel Pro 1500, SATA, Self-Encrypting Opal 1 Solid State Drive

256 GB, SATA, Self-Encrypting Opal 2 Solid State Drive

2.5" Self-Encrypting Drive

500 GB, SATA, Self-Encrypting Drive

2.5" Solid State Hybrid Drive



^{*} Windows 8.1 supports Wireless Display natively.

500 GB, SATA, Solid State Hybrid Drive 1 TB SATA, Solid State Hybrid Drive

Optical Disc Drive

Slim SATA DVD-ROM Slim SATA SuperMulti DVD Writer Slim SATA BDXL Blu-ray Writer No included Optical Disc Drive

Removable

HP Slim Removable SATA HDD Frame/Carrier

Media Card Reader

HP 5-in-1

Supports Secure Digital (SD, SDHC, SDXC, Memory Stick (MS), Memory Stick Pro (MS Pro))

MEMORY

Type

Non-ECC, DDR3 SDRAM, 1600 MHz, SODIMM

Maximum

16 GB

of Slots

2

204-pin supporting dual-channel memory

Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

NOTE: Full availability of 4 GB or more of memory requires a 64-bit operating system. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

NETWORKING/COMMUNICATIONS

Ethernet (RJ-45)

Integrated Realtek RTL8151GH-CG GbE LOM 10/100/1000

With Wake-on-LAN

NOTE: The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Wireless

Intel 802.11 a/b/g/n wireless 7260 PCIe minicard (optional)

Up to 300 mbps data rate

HP 802.11 a/b/g/n wireless PCIe minicard with Bluetooth Combo (optional)

- Up to 300 mbps data rate
- Bluetooth 4.0 compliant
- Works with a wide range of Bluetooth devices

AUDIO/MULTIMEDIA

DTS Sound +™
Realtek ALC3228 codec - 16 & 24-bit PCM
Integrated business class 2.0 speakers (2W x 2)
Stereo headphone jack
Microphone in
Stereo line out
Optional integrated 1.0 MP webcam & dual microphone array - Up to 30 frames/sec



KEYBOARDS AND POINTING DEVICES

Keyboard

HP USB Standard 104 keys plus special functions for Mute, Volume Up, Volume Down, Sleep & Multimedia control keys

Separate numeric keypad

Cable length 71 in (180 cm)

HP Wireless Keyboard & Mouse 104 keys plus special functions for Mute, Volume Up, Volume Down, Sleep

Separate numeric keypad; two buttons with scroll wheel acting as third button Operates at ~ 2.4 GHz and supports a working distance of up to 23 ft (7m)

Keyboard contains 25% post-consumer recycled plastic material

HP USB CCID SmartCard Keyboard 104, 105, 106, 107, 109 layout (depending upon country)

All ISO 7816 smart cards

HP USB PS/2 Washable Keyboard SpillSeal® keyboard technology protection

USB & PS/2 support in one solution

Separate numeric keypad

Cable length 7ft (2.2m)

HP USB Optical Mouse Two buttons with scroll wheel

71 in (180 cm)

HP USB 1000dpi Laser Mouse 1000 dpi support

Two buttons with scroll wheel Cable length 70.8 in (180 cm)

HP USB PS/2 Washable Scroll Mouse SpillSeal® mouse technology protection

Two buttons with scroll wheel 8.8 ft total 70 cm+ 2m extension

SECURITY

Security lock slot HP Keyed Cable Lock USB port disable Rear cover security screw

POWER

External 120W, up to 89% efficient, active PFC 100-240V AC

B Fee: 1				
Power Efficiency	89%	88%		
Volts	230	00 /6		
Voits		100/115		

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

Included Windows 7 Security Computrace Computrace

HP Device Access Manager with Just In Time Authentication

HP Drive Encryption

HP File Sanitizer (SSDs and Hybrid Drives not

supported)

HP Disk Sanitizer External Edition

HP Client Security

HP Trust Circles Standard Microsoft Security Essentials Cyberlink Power DVD, BD

Cyberlink Power2Go (Secure Burn)

Cyberlink YouCam BE

Communication

MultiMedia

HP Value Add HP ePrint Driver2

HP Manageability (activation required)

HP PageLift

HP Recovery Manager **HP Support Assistant** HP Recovery Disk Creator Windows 8.1

HP Device Access Manager with Just In Time

Authentication HP Drive Encryption

HP File Sanitizer (SSDs and Hybrid Drives not

supported)

HP Disk Sanitizer External Edition¹

HP Client Security HP Trust Circles Standard Microsoft Defender Cyberlink Power DVD. BD.

Cyberlink Power2Go (Secure Burn)

HP Wireless Hotspot HP ePrint Driver2

HP Manageability (activation required)

HP PageLift

HP Recovery Manager **HP Support Assistant**



3rd Party

Adobe Flash Player

Box

PDF Complete, Corporate Edition

PDF Complete, Corporate Edition Skype

Skype

Microsoft Products

Buy Office

Buy Office

1 Available via download. ² Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary

ENVIRONMENTAL & INDUSTRY

ENERGY STAR® qualified models available

EPEAT® registered where applicable/supported. See www.epeat.net for registration status by country.

Industry standard certifications:

UL

CSA

FCC compliance

ENERGY STAR®

EPEAT® Gold

EUP Lot6 Tier2

CCC

CECP

SEPA

For accessibility information on HP products, please visit: http://www.hp.com/accessibility.

WEIGHTS & DIMENSIONS

Weight

With stand 17.6 - 17.9 lbs

7.99 - 8.14 kg

Without stand 16.4 - 16.7 lbs 7.42 -7.57 kg

Shipping box 26.69 lbs 12.11 kg

Shipping pallet (20 units)

578.71 lbs 262.5 kg

Detailed dimensions

Dimensions

With stand 22 x 3.3 x 15.9 in (W x D x H)

557.9 x 84.4 x 402.6 mm

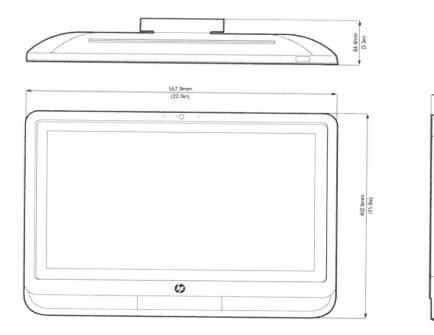
Without stand 22 x 2.3 x 14.3 in 557.9 x 59.4 x 362.9 mm

Shipping box

25.51 x 6.89 x 21.34 in 648 x 175 x 542 mm

Shipping pallet (20 units) 47.2 x 39.4 x 48.27 in 1200 x 1000 x 1226 mm





TEMPERATURE, HUMIDITY, ALTITUDE

Temperature

Operating

41 to 95°F 5 - 35°C

Non-operating

-22 to 149°F

-30° to 65°C

Relative humidity

Operating

15 - 80% at 26° C

Altitude (unpressurized) Operating

0 to 6500 ft (0 to 2000 m)

Non-operating

0 to 15,000 ft (0 to 4,572 m)

PORTS

I/O Ports - Standard

2 - USB 3.0 (2 side including 1 fast charging)

USB Fast Charging Port:

- Up to 2.5A charging current (5 times the maximum current supported by a USB 2.0 port; 2.8 times the maximum current supported by a USB 3.0 port)
- D+/D- CDP/DCP Modes per USB Battery Charging Specification 1.2
- D+/D- Shorted Mode per Chinese Telecommunication Industry Standard YD/T 1591-2009
- Supports non-BC1.2 Charging Modes by Automatic Selection
- D+/D- Divider Modes 2.0V/2.7V and 2.7/2.0V
- D+/D- 1.2V Mode
- Supports Sleep-Mode Charging
- Automatic SDP/CDP Switching for Devices That do not Connect to CDP Ports
- 4 USB 2.0 (rear)
- 1 Microphone in (side)
- 1 Headphone jack (side)
- 1 Serial RS-232 (rear)
- 1 Stereo audio line out (rear)
- 1 Power connector (rear)
- 1 RJ-45 (rear)
- 1 DisplayPort

DisplayPort connector supports multimode technology to support connection to DVI-D, HDMI and VGA monitors with optional adapters or to a DisplayPort monitor with a DisplayPort Cable.

DisplayPort Cable

Provides a direct connection between the PC's DisplayPort interface to the display's DisplayPort interface



DisplayPort To DVI-D Adapter Provides a connection from the PC's DisplayPort interface to the display's DVI-D interface; adapts the DP output

to the DVI-D input

DisplayPort To HDMI Adapter Provides a connection from the PC's DisplayPort interface to the display's HDMI interface; adapts the DP output

to the HDMI input

DisplayPort To VGA Adapter Provides a connection from the PC's DisplayPort interface to the display's analog VGA interface; adapts the

digital DP output to the analog VGA input

SLOTS

1 - mini PCle half-length (used by optional wireless LAN module)

BAYS

1 - 3.5" internal; Supports One - 3.5" hard drive or up to One - 2.5" hard drives (HDD/SSD/SED/SSHD)

1 - 5.25" external; Slim Line Optical Drive

SERVICE AND SUPPORT

On-site Warranty ¹: Standard three-year (3-3-3²) limited warranty delivers three years of on-site, next business day ³ service for parts and labor and includes free telephone support ⁴ 24 x 7. One-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing a Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: www.hp.com/go/cpc

NOTE 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

NOTE 2: One-year (1/1/1) in Mexico only.

NOTE 3: On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

NOTE 4: Technical telephone support applies only to HP-configured Compaq and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.



Technical Specifications - Graphics

Intel HD Graphics

VGA Controller

Integrated

DisplayPort

Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi-

Stream Technology for a maximum of 2 displays (including the integrated panel)

Bus Type RAMDAC

N/A N/A

Memory

Support

Intel graphics do not have dedicated memory but utilizes some of the computer's system memory The amount of memory used for graphics depending on the amount of system memory installed, BIOS settings, operating system, and system load. 32 MB is pre-allocated for graphics use at system boot time. Additional memory can be allocated at boot time by the BIOS for PAVP (Protected Audio Video Playback) support for playback of protected video content.

Additional memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.

Maximum Graphics Memory

Microsoft Windows 7

Windows 8.1

Up to 1.7GB

Up to 1.8GB

NOTE: the actual amount of maximum graphics memory can be less than the amounts listed above depending upon your computer's configuration.

Maximum Color Depth 32 bits/pixel Graphics/Video API

4th Generation Core processors:

- The Processor Graphics contains a refresh of the seventh generation graphics core enabling substantial gains in performance and lower power consumption. Up to 16 EU
- Next Generation Intel Clear Video Technology HD Support is a collection of video playback and enhancement features that improve the end user's viewing experience
 - Encode/transcode HD content
 - O Playback of high definition content including Blu-ray Disc
 - O Superior image quality with sharper, more colorful images
- DirectX Video Acceleration (DXVA) support for accelerating video processing
 - O Full AVC/VC1/MPEG2 HW Decode
- Advanced Scheduler 2.0, 1.0
- Windows 7, Windows 8.1, Linux OS Support
- DirectX 11.1
- OpenGL 4.0
- Open CL 1.2

Supported Display Resolutions and Refresh Rates

NOTE: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

Resolution	Refresh Rates
800x600	60 Hz
1024x768	60 Hz
1152x864	60 Hz
1280x600	60 Hz
1280x720	60 Hz
1280x800	60 Hz
1280x960	60 Hz
1280x1024	60 Hz
1360x768	60 Hz
1366x768	60 Hz
1400x1050	60 Hz
1440x900	60 Hz
1600x900	60 Hz
1600x1200*	60 Hz
1680×1050	60 Hz
1920x1080	60 Hz
1920x1200*	60 Hz
1920x1440*	60 Hz
2560x1440*	60 Hz
2560x1600*	60 Hz



QuickSpecs

HP ProOne 400 G1 All-in-One Business PC (21.5" Touch)

Technical Specifications - Graphics

* Only supported on displays connected to the external DisplayPort connector.



Technical Specifications - Hard Disk and Solid State Storage

Introduction:

HP Serial Advanced Technology Attachment (SATA) Hard Drives maximize the performance of HP Business PCs by providing the technologies to meet your increasing storage demands with high-capacity drives offering superior reliability and performance.

SATA provides faster data transfer speeds, better system cooling airflow, more bandwidth, more headroom for speed increases in future generations and better data integrity. A next-generation technology, the SATA interface connects hard drives to the PC platform enabling easy aggregation of multiple hard drives into a single PC. This offers you the additional benefits of dedicated bandwidth, the ability to more easily identify device failures and scalability. The HP ProOne 400 G1 Series Business PC supports the latest SATA 6.0Gb/s specification.

SMART IV Technology

Self Monitoring Analysis and Reporting Technology (SMART) hard drive technology allows hard drives to monitor their own health and to raise flags if imminent failures are predicted. If the drive determines that a failure is imminent, the SMART hard drive technology enables the intelligent manageability or management software to generate a fault alert. While the current versions of SMART hard drives do a good job monitoring the data on the hard drive media, the ever increasing emphasis on reliability and quality has promoted HP to implement SMART IV technology which constantly checks that the data flow from host interface to media and media to host interface is not compromised. This is accomplished by inserting a 2 byte parity code into every 512 byte block in the data path of the hard drive's Cache RAM. This unique parity checking performed by HP's SMART IV technology hard drives, allows for more complete error detection coverage encompassing the entire data path between the host and the hard drive.

Smart IV is also known as IOEDC: I/O Error Detection Code.

Native Command Queuing

NCQ or Native Command Queuing is a SATA protocol extension that allows the hard drive to have several write or read commands outstanding at the same time. In contrast, normal non-queued operation requires each command to be completed before the next command is issued by the host system. Queuing allows the drive to complete the commands in the order that allows for best overall throughput. It also involves an advanced method of transferring data to or from the host, called First Party Direct Memory Access (FPDMA), which allows the hard drive and the host controller to manage the data transfers for multiple outstanding commands, without involving the host processor. NCQ can contribute to better performance but the results are dependent on many factors, including the access patterns of the various applications and operating system functions that are initiating drive accesses. Enabling NCQ features in the hard drive requires AHCI support from the host system BIOS, controller, and driver. AHCI support is typically implemented in RAID configurations

NOTE: GB = 1 billion bytes. Actual available capacity is less.

HP 500-GB 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive

Capacity

500,107,862,016 bytes

Rotational Speed

7,200 rpm

Interface

SATA 6 Gb/s

Buffer Size

16 MB

Logical Blocks
Seek Time (typical reads.

976,773,168

2.0 ms

includes controller overhead,

Single Track: Average:

11 ms

including settling)

Full-Stroke:

21 ms

Height (nominal)

1 in/2.54 cm

Width (nominal)

Media diameter: 3.5 in/8.89 cm

Physical size: 4 in/10.2 cm

Operating Temperature

41° to 131° F (5° to 55° C)



Technical Specifications - Hard Disk and Solid State Storage

HP 1-TB 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive

Capacity

1,000,204,886,016 bytes

Rotational Speed

7,200 rpm

Interface

SATA 6 Gb/s

Buffer Size

32 MB

Logical Blocks

1,953,525,168

Seek Time (typical reads,

Single Track:

2.0 ms

includes controller overhead,

Average:

11 ms

including settling)

Full-Stroke:

21 ms

Height (nominal)

1 in/2.54 cm

Width (nominal)

Media diameter: 3.5 in/8.89 cm Physical size: 4 in/10.2 cm

Operating Temperature

41° to 131° F (5° to 55° C)

HP 500-GB 7.2K SATA 6.0Gb/s 2.5" Hard Disk Drive

Capacity

500,107,862,016 bytes

Rotational Speed

7,200 rpm

Interface

SATA 6 Gb/s

Buffer Size

16 MB

Logical Blocks Seek Time (typical reads, 976,773,168 Single Track:

2.0 ms

includes controller overhead,

Average:

12 ms 25 ms

including settling)

Full-Stroke: 0.374 in/9.5 mm

Height (nominal) Width (nominal)

Media diameter: 2.5 in/63.5 mm

Operating Temperature

Physical size: 2.75 in/70 mm 41° to 131° F (5° to 55° C)

HP 128 GB SATA 2.5" Self-Encrypting (SED) Solid State Drive

Unformatted Capacity

Architecture

Self-Encrypting (SED) Solid State Drive using NAND Flash and SATA interface

Interface Height Width

.267 in/6.80 mm 2.75 in/69.85 mm 3.94 in/100.2 mm

SATA 6 Gb/s

Length Weight

0.121 lb (55 g) max

Host Transfer Rate:

600 MB/s

Sequential Read:

Up to 520 MB/s

Sequential Write:

Up to 340 MB/s * Actual performance may vary depending on use conditions and

Performance

environment ** NOTES:

1. Measured at HP 8570p@Win7 x64

2. Performance measured using CrystaldiskMark 3.01c

3. Drive was connected as primary

System power consumption: Active* - 0.78A / 3.891W (typical)

System power consumption: Idle** - 0.005A / 0.026W (typical)

Power

* Active power is measured during execution of IOMeter 2006 in Windows 7

** Idle power is measured on DOS Idle status with DIPM on

System Reliability

MTBF - 1,500,000 Hours

Environmental

Operating Temperature:

32° to 158° F (0° to 70° C) 5% to 95%

(all conditions, noncondensing)

Relative Humidity: Shock:

1500G, duration 0.5ms, Half Sine Wave



Technical Specifications – Hard Disk and Solid State Storage

HP 256 GB SATA 2.5" Self-Encrypting (SED) Solid State Drive

Unformatted Capacity

Architecture

Self-Encrypting (SED) Solid State Drive using NAND Flash and SATA interface

Interface

SATA 6 Gb/s

Height

.267 in/6.80 mm 2.75 in/69.85 mm

Width Length

3.94 in/100.2 mm

Weight

0.121 lb (55 g) max

Host Transfer Rate:

600 MB/s

Sequential Read: Sequential Write:

Up to 520 MB/s Up to 460 MB/s

Performance

* Actual performance may vary depending on use conditions and

environment ** NOTES:

1. Measured at HP 8570p@Win7 x64

2. Performance measured using CrystaldiskMark 3.01c

3. Drive was connected as primary

System power consumption: Active* - 0.78A / 3.891W (typical)

System power consumption: Idle** - 0.005A / 0.026W (typical)

Power

* Active power is measured during execution of IOMeter 2006 in Windows 7

** Idle power is measured on DOS Idle status with DIPM on

System Reliability

MTBF - 1,500,000 Hours

Environmental

Operating Temperature:

32° to 158° F (0° to 70° C)

(all conditions, non-

Relative Humidity:

5% to 95%

condensing)

Shock:

1500G, duration 0.5ms, Half Sine Wave

HP 500-GB 7200 RPM SATA 2.5" Self-Encrypting (SED) Hard Disk Drive

Capacity

500,107,862,016 bytes

Rotational Speed

7,200 rpm

Drive Type

Self-Encrypting Drive (SED) with SATA interface

Interface

SATA 6 Gb/s

Segmented Buffer with write 32768 KB - A portion of buffer capacity used for firmware

cache

Number of Sectors

976,773,168

Single Track:

1.0 ms

Seek Time (typical reads)

Average:

13 ms

Full-Stroke:

25 ms

Media Diameter

2.5 in/63.5 mm

Height Width

0.267 in/6.8 mm, ±0.2mm 2.75 in/69.85 mm, ±0.25mm

Length Weight

3.35 oz/95 g (max)

Operating Temperature

32° to 140° F (0° to 60° C)

3.945 in/100.2 mm, ±0.25mm



Technical Specifications - Hard Disk and Solid State Storage

HP 500 GB SATA 6G 2.5" 8GB Solid State Hybrid Drive (SSHD)

Formatted Capacity

500 GB

Spindle Speed

5,400 rpm +/- 0.2%

Drive Type

Solid State Hybrid Drive (SSHD) technology with NAND Flash

Interface

SATA 6 Gb/s

Cache Buffer

64 MB

NAND Flash

8 GB

Commercial Multilevel Cell

(cMLC)

Number of Sectors

976,773,168

Single Track:

2.0 ms 12 ms

Seek Time (typical reads)

Average:

Height

0.268 +/-.008 in (6.8 +/- 0.2 mm)

Width

2.750 +/- 0.010 in (69.85 +/- 0.25 mm)

Length

3.951 +0.008 / -0.010 in (100.35 +0.20 / -0.25 mm)

Weight

0.209 lb/95 g (max)

Operating Temperature

32° to 140° F (0° to 60° C)

HP 1-TB SATA 6G 2.5" 8GB Solid State Hybrid Drive (SSHD)

Formatted Capacity

1 TB

Spindle Speed

5,400 rpm +/- 0.2%

Drive Type

Solid State Hybrid Drive (SSHD) technology with NAND Flash

Interface

SATA 6 Gb/s

Cache Buffer

64 MB

NAND Flash

8 GB

Commercial Multilevel Cell

(cMLC)

Number of Sectors

976,773,168

Single Track:

2.0 ms

Seek Time (typical reads)

Average:

12 ms

A

0.374 +/-.008 in (9.5 +/- 0.2 mm)

Height 0

2.750 +/- 0.010 in (69.85 +/- 0.25 mm)

Length

3.951 + 0.008 / -0.010 in (100.35 + 0.20 / -0.25 mm)

Weight Operating Temperature

32° to 140° F (0° to 60° C)

0.254 lb/115 g (max)



Technical Specifications - Removable Storage

HP Slim SuperMulti DVD Writer Drive

Height

12.7mm height

Orientation

Either horizontal or vertical

Interface type

SATA/ATAPI

Disc recording capacity

Up to 8.5 GB DL or 4.7 GB standard

Dimensions (W x H x D)

5.0 x 0.5 x 5.0 in (128 x 13.6 x 129 mm)

Weight (max)

0.42 lb (190 g)

DVD-RAM

Up to 5X

DVD-R DL

Up to 6X

DVD+R DVD+RW Up to 8X Up to 8X

Write speeds

DVD+R DL

Up to 6X

DVD-R

Up to 8X

DVD-RW

Up to 6X

CD-R

Up to 24X

CD-RW

Up to 24X

DVD-RAM

Up to 5X

DVD-RW, DVD+RW

Up to 8X

DVD-R DL, DVD+R DL

Up to 8X

Read speeds

DVD+R, DVD-R

Up to 8X

DVD-ROM DL, DVD-ROM

Up to 8X

CD-ROM, CD-R

Up to 24X

CD-RW Random

Up to 24X

Access time

(typical reads, including

settling)

Full Stroke

Stop Time

DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)

6 seconds typical

Source

Slimline SATA DC power receptacle

Power

DC Power Requirement

5 VDC ± 5%-100 mV ripple p-p

DC Current

5 VDC (< 1000 mA typical, 1600 mA maximum)

Temperature

41° to 122° F (5° to 50° C)

Environmental conditions

(operating - non-condensing)

Relative Humidity

10% to 90%

Maximum Wet Bulb

84° F (29° C) Temperature

HP Slim Blu-ray BDXL Drive

Height

12.7mm height

Orientation

Either horizontal or vertical

Interface type

SATA/ATAPI

Disc recording capacity

Up to 128 GB QL, 100 GB TL, 50 GB DL or 25 GB standard SL

Dimensions (W x H x D)

5.04 x 0.5 x 5.0 in (128 x 12.7 x 127 mm) without bezel

Weight (max)

Up to 0.37 lb (170 g) without bezel

Write speeds

Triple-layer

Quadruple-layer



Technical Specifications - Removable Storage

	BD-R	Up to 4X	Up to 4X
	BD-RE	Up to 2X	Not supported
		Single-layer	Double-layer
	BD-R	Up to 6X	Up to 6X
	BD-RE	Up to 2X	Up to 2X
	DVD-R	Up to 8X	Up to 6X
	DVD-RW	Up to 6X	Not supported
	DVD+R	Up to 8X	Up to 6X
	DVD+RW	Up to 8X	Not supported
	DVD-RAM	Up to 5X	N/A
	CD-R	Up to 24X	N/A
	CD-RW	Up to 24X	N/A
		Triple-layer	Quadruple-layer
	BD-R	Up to 4X	Up to 4X
	BD-RE	Up to 4X	Not supported
		Single-layer	Double-layer
	BD-ROM	Up to 6X	Up to 6X
	BD-R	Up to 6X	Up to 6X
Read speeds	BD-RE	Up to 6X	Up to 6X
	DVD-ROM	Up to 8X	Up to 8X
	DVD-R	Up to 8X	Up to 8X
	DVD-RW	Up to 8X	N/A
	DVD+R	Up to 8X	Up to 8X
	DVD+RW	Up to 8X	N/A
	BDMV (AACS Compliant Disc)	Up to 6X/2X (Read/Play)	N/A
	DVD-RAM	Up to 5X	N/A
	DVD-Video (CSS Compliant Disc)	Up to 8X/4X (Read/Play)	N/A
	CD-R/RW/ROM	Up to24X	N/A
	CD-DA(DAE)	Up to 20X/10X (Read/Play)	N/A
Access time	Random	BD-ROM: 205 ms (typical), D'CD-ROM: 165 ms (typical)	VD-ROM: 185 ms (typical),
(typical reads, including settling)	Full Stroke	BD-ROM: 350 ms (typical), D'CD-ROM: 340 ms (typical)	VD-ROM: 345 ms (typical),
	Source	Slimline SATA DC power rece	eptacle
Power	DC Power Requirement	5 VDC ± 5%-100 mV ripple p-	р
	DC Current	5 VDC -1200 mA typical, 2000) mA maximum
	Temperature	41° to 122° F (5° to 50° C)	
Environmental conditions	Relative Humidity	10% to 80%	
(operating - non-condensing)	Maximum Wet Bulb Temperature	84° F (29° C)	



Technical Specifications - Removable Storage

HP Slim DVD-ROM Drive

Height

12.7mm

Orientation

Either horizontal or vertical

Interface type

SATA/ATAPI

Dimensions (W x H x D)

 $5.04 \times 0.5 \times 5.0$ in (128 x 12.7 x 127 mm) without bezel

Weight (max)

Up to 0.37 lb (170 g) without bezel

DVD+R/-R/+RW/

-RW/+R DL /-R DL

Read speeds

DVD-ROM

CD-ROM, CD-R

Up to 8X Up to 24X

Up to 8X

CD-RW

Up to 24X

Access time

(typical reads, including

settling)

Random

Full Stroke

DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)

Source

DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical) Slimline SATA DC power receptacle

Power

DC Power Requirement

 $5 \text{ VDC} \pm 5\%$ -100 mV ripple p-p

DC Current

5 VDC - <1000 mA typical, < 1600 mA maximum

Temperature

41° to 122° F (5° to 50° C)

Environmental (all

conditions non-condensing)

Relative Humidity

10% to 80% 84° F (29° C)

Maximum Wet Bulb

Temperature (operating)



Technical Specifications - Memory

System Memory Support

The HP ProOne 400 G1 Business PC supports the 4th generation Intel® Core™ processor family. Based on a new PC micro-architecture, the processor is designed for a two-chip platform consisting of a processor and Platform Controller Hub (PCH). Unlike previous generations, the 4th generation Intel® Core™ processor includes an Integrated Memory Controller (IMC). The IMC supports DDR3/DDR3L protocols with two independent, 64-bit wide channels each accessing one or two DIMMs.

- Two channels of DDR3/DDR3L unbuffered small outline dual in-line memory modules (SO-DIMM) with a maximum of two DIMMs per channel
- Single-channel and dual-channel memory organization modes
- Data burst length of eight for all memory organization modes
- Memory data transfer rates of up to 1600 MT/s; actual supported data transfer rate determined by the configured processor.
- 64-bit wide channels
- DDR3/DDR3L system memory I/O voltage of 1.5V
- Theoretical maximum memory bandwidth of:
 - O 21.3 GB/s in dual-channel mode assuming 1333 MT/s
 - o 25.6 GB/s in dual-channel mode assuming 1600 MT/s

Platform Memory Support

The All-in-One supports up to two (2) industry-standard DDR3-SDRAM SO-DIMMs.

CAUTION: You must shut down the computer and disconnect the power cord before adding or removing memory modules. Regardless of the power-on state, voltage is always supplied to the memory modules as long as the computer is plugged in to an active AC outlet. Adding or removing memory modules while voltage is present may cause irreparable damage to the memory modules or system board.

NOTE: For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.



Technical Specifications - Networking/Communication

Realtek RTL8151GH-CG GbE LOM Network Adapter

Connector

System Interface

Integrated on PCA

Controller

Realtek RTL8151GH-CG Gigabit Ethernet Controller

Memory

16 KB FIFO packet buffer memory

Data rates supported

10/100/1000 Mbps

802.1P 802.1Q

IEEE Compliance

802.3 802.3ab 802.3az 802.3u

Bus architecture PCI Express Data transfer mode

Power requirement

PCIe-based interface for active state operation (S0 state) Requires 3.3V and 1V or just 3.3V with integrated regulators Power consumption 0.425 W

Network transfer mode

Full-duplex

Half-duplex (not supported for the 1000BASE-T transceiver)

Network transfer rate

10BASE-T (half-duplex) 10 Mbps 10BASE-T (full-duplex) 20 Mbps 100BASE-TX (half-duplex) 100 Mbps 100BASE-TX (full-duplex) 200 Mbps 1000BASE-T (full-duplex) 2000 Mbps

Environmental

Operating Temperature: 32° to 158° F (0° to 70° C)

Operating Humidity: 60% RH

Management

WOL, auto MDI crossover, PXE, Muti-port teaming, Advanced cable diagnostic

Intel Dual Band Wireless-N 7260 802.11 a/b/g/n (2x2) Wireless Network Interface Connection

Wireless LAN Standards

IEEE 802.11a/b/g/n

Interoperability

Wi-Fi certified (802.11 a/b/g/n WMM, WPA, WPA2 and WPS)

Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista

and XP.

NOTE: WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions

support for Microsoft Windows Vista

Frequency Band

802.11b/g/n 802.11a/n

2.402-2.482 GHz 4.9 - 4.95 GHz (Japan) 5.15 - 5.25 GHz 5.25 - 5.35 GHz

5.47 - 5.725 GHz 5.825 - 5.850 GHz

Antenna Structure

2 transmit; 2 receive (2x2)

Data Rates

802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

Modulation

Direct Sequence Spread Spectrum CCK, BPSK, QPSK, 16-QAM, 64-QAM

Security

IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

AES-CCMP: 128 bit in hardware

802.1x authentication

WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification

IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX Lite



Technical Specifications - Networking/Communication

NOTE: Check latest software/driver release for updates on supported security features.

Sub-channels

Multinational support with frequency bands and channels compliant to local regulations.

Network Architecture

Ad-hoc (Peer to Peer)

Models Roaming Infrastructure (Access Point Required)

Output Power

IEEE 802.11 compliant roaming between band Access Points • 2.4G: +13.5dBm minimum • 5G: +12dBm minimum

NOTE: Maximum output power may vary by country according to local regulations.

Power Consumption

Transmit: 2.0 Watts Receive: 1.6 Watts

Idle mode: 250 mW (WLAN associated) In Power Save Polling mode and on battery power.

Idle mode: 100 mW (WLAN unassociated) Radio off: 100 mW (WLAN unassociated)

Power Management

ACPI compliant power management 802.11 compliant power saving mode

Receiver Sensitivity

802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82

dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps)

NOTE: Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation)

802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm (11 Mbps)

802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82

dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps)

Antenna Connections

2 U.FL type connectors (output impedance of 50 ± 2 ohms)

Form Factors

PCI-Express Half-MiniCard

Weight

Humidity

Altitude

0.0068 lb (3.1 g)

Dimensions

0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)

Operating Voltage

3.3V +/- 9% Operating:

14° to 158° F (-10° to 70° C)

Temperature

-40° to 176° F (-40° to 80° C) Non-operating:

Operating:

10% to 90% (non-condensing)

Non-operating:

5% to 90% (non-condensing)

Operating:

0 to 10,000 ft (3,048 m)

Non-operating:

0 to 50,000 ft (15,240 m)

LED Activity

LED Amber - Radio OFF; LED White - Radio ON

HP 802.11a/b/g/n Wireless Minicard with Bluetooth Combo

Dimensions (L x H)

1.18 x 1.06 in (30 x 26.8 mm)

Chipset Broadcom BCM43228 + BCM20702 PCI Express x1

System interface

Network standard

802.11 a/b/g/n

Frequency band

Bluetooth: 2.402 - 2.480 GHz

Wi-Fi: 802.11a - 5.15-5.85 GHz; 802.11bg 2.412-2.4835 GHz

Operating temperature Storage temperature

32° to 131°F, operating (0° to 55°C, operating) -40° to 176°F, non-operating (-40° to 80°C, non-operating)

Humidity

5-90% operating 5-95% non-operating

Operating voltage

3.3 V ±9% I/O supply voltage



Technical Specifications - Networking/Communication

	Platform/WLAN Mode	Power Consumption
	Wi-Fi	To the distribution
	Tx Mode	515 mA
	Rx Mode	425 mA
	Bluetooth	
Power Consumption	Tx Mode	40 mA
	Rx Mode	38 mA
	Standby Mode	Wi-Fi + Bluetooth - 165 mA Wi-Fi only - 165 mA Bluetooth only - 0.5 mA
	Radio Off	77 mA
	802.11 a	15.5 dBm@6Mbps; 15.5 dBm@54Mbps
	802.11 b	18.5 dBm@11Mbps
Output Power	802.11 g	16.5 dBm@6Mbps; 16.5 dBm@54Mbps
(2x2 - Tolerance +/- 1.5 dBm	802.11 n/2.4G	20MHz: 18 dBm@MCS0; 18 dBm@MCS15 40MHz: 17 dBm@MCs0; 17 dBm@MCS15
	802.11 n/5G	20MHz: 16 dBm@MCS0; 16 dBm@MCS15 40MHz: 16 dBm@MCs0; 16 dBm@MCS15
Security IEEE 802.11i 64-/128-bit WEP encryption		

Security

WPS, WPA, WPA2, WEP 64bit & 128bit, IEEE 802.11x, IEEE 802.11i

Antenna

Dual antenna connectors

Technical Specifications - Audio

Realtek ALC3228 High Definition Audio

Type

Integrated

HD Stereo Codec

Realtek ALC3228 4-channel codec

Line-In/Microphone input ports are 47K (nominal) at the pin

Line-Out intended to drive an external 10K load (nominal) and an on board shunt resistor of

Ports 20-47K (nominal)

Headphone-Out designed to drive 32 ohm (nominal) headphones or a 10K (nominal) load

All ports are 3.5 mm

Internal Speaker Amplifier

2.2W/channel Class-D stereo BTL speaker amplifier@ 4 ohms and 5V

The ALC3228 audio CODEC provides stereo 24- bit, full duplex resolution supporting sample rates up to 192kHz by the DAC and ADC. Additional sample rates are supported by the

Sampling rates up to 192k driver software.

Analog Audio

Yes

of Channels on Line-Out

4 Channels (2 stereo DACs and 2 stereo ADCs) with 24-bit resolution

Internal Speaker

Yes



HP USB Keyboard

Keys 104, 105, 106, 107, 109 layout (depending upon country)

Physical characteristics Dimensions (L x W x H) 18.12 x 6.47 x 0.96 in (46.03 x 16.43 x 2.44 cm)

Weight 2 lb (0.9 kg)

Operating voltage $+ 5VDC \pm 5\%$

Power consumption 50-mA maximum (with three LEDs ON)

Electrical System interface USB Type A plug connector

ESD CE level 4, 15-kV air discharge

EMI - RFI Conforms to FCC rules for a Class B computing device

Microsoft® PC 99 - 2001 Functionally compliant
Keycaps Low-profile design

Switch actuation 55-g nominal peak force with tactile feedback

Switch life 20 million keystrokes (using Hasco modified tester)

 Mechanical
 Switch type
 Contamination-resistant switch membrane

Key-leveling mechanisms For all double-wide and greater-length keys

Cable length 6 ft (1.8 m)

Microsoft PC 99 - 2001 Mechanically compliant

Acoustics 43-dBA maximum sound pressure level

Operating temperature 50° to 122° F (10° to 50° C)

Non-operating temperature -22° to 140° F (-30° to 60° C)

Operating humidity 10% to 90% (non-condensing at ambient)
Non-operating humidity 20% to 80% (non-condensing at ambient)

Environmental Operating shock 40 g, six surfaces

Non-operating shock 80 g, six surfaces

Operating vibration 2-g peak acceleration

Non-operating vibration 4-g peak acceleration

Drop (out of box) 26 in (66 cm) on carpet, six-drop sequence

Drop (in box) 42 in (107 cm) on concrete, 16-drop sequence

Approvals UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC

Ergonomic compliance ANSI HFS 100, ISO 9241-4, and TUVGS

Kit contents Keyboard Installation Guide

Warranty Card Safety and Comfort Guide

Mouse

System Requirements

Technical Specifications - Keyboards and Mice

HP Wireless Keyboard and Mouse

1.09 x 18.1 x 6.47 in (27.87 x 460.3 x 164.3 mm Dimensions (H x L x W)

Keyboard Weight - Without Two AA 1.94 lb (880 g)

Alkaline Batteries

Dimensions (H x L x W) 1.46 x 4.53 x 2.47 in (37 x 115 x 62.9 mm)

Alkaline Batteries

Dimensions (H x L x W) 0.33x 1.79 x 0.72 in (8.4 x 45.5 x 18.4 mm)

0.15 lb (67 g)

0.21 oz (5.9 g)

Receiver 6 ft (1.8 m) Cable Length - Minimum 32.8 ft (10 m)

Weight - Without Two AA

Windows 7 Home Basic*, Windows 7 Home Premium*, Windows 7 Professional Edition 32*, Windows 7 Professional Edition 64*, Windows 7 Ultimate Edition 32*, Windows 7

Ultimate Edition 64* Windows Vista or Windows XP

Available USB port for the receiver

CD-ROM Drive

Range

*This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality See http://www.microsoft.com/windows/windows-7/ for details

UL; CSA /TUV (Europe only); CE Mark; CB Report **Product Safety** ANSI; ISO (Europe only); GS Mark (Germany only) Ergonomics

FCC; CE; ACA (-tick); BSMI; KC; VCCI **EMC**

EN 55022:2010; EN 55024; EN 301489-1; EN 61000 **CE Mark**

PC 99 - connector overmold colors; PC 2001 - full Design Guidelines for PCs

functionality

All local telecom requirements and approvals for intended Telecom

FCC Title 47 CFR, Par 15, Subpart C; other local USA

requirements

US, Belgium, Switzerland, Spain, Denmark, Netherlands, Country Support France, Germany, Italy, Portugal, Sweden, Norway, Finland,

UK, Poland, Czech Republic, Turkey, Greece, Austria, Bulgaria, Cyprus, Estonia, Hungary, Ireland, Latvia, Lithuania, Luxemburg, Malta, Romania, Slovakia, Slovenia, Vietnam, HK, Australia, NZ, Malaysia, Singapore, Indonesia, Philippines, Thailand, Canada, China, Japan, Korea, Taiwan, India, Venezuela, Ecuador, Russia, Ukraine, Israel, Croatia, United Arab Emirates, Peru, Brazil, Chile, Argentina, Mexico, South Africa, and up to 193 countries

worldwide.

Keyboard contains 25% post-consumer recycled plastic material Environmental

HP USB Smart Card (CCID) Keyboard Introduction:

Boost your security, simplify access procedures and reduce the costs associated with managing networks by preventing unauthorized access to your computers and networks using smartcard technology with the HP Smart Card (CCID) Keyboard.

The USB Smart Card (CCID) Keyboard is a full-sized keyboard that takes advantage of digital signatures and certificates to secure the environment for transactions performed on both public and private networks. The USB Smart Card (CCID) Keyboard works with all smart cards that comply with ISO standard 7816.

Smart cards are easy-to-use credit card-sized devices which require multiple forms of information to be validated before you gain access to your accounts or resources. Used worldwide, smart cards strengthen access to a network or other resource



Key Benefits:

Electrical

Mechanical

Environmental

Technical Specifications - Keyboards and Mice

using dual-factor authentication. Implementing a two-factor authentication (or multi-factor authentication) process reduces the risk of unauthorized access by verifying and validating your identity in one of the following ways:

- Something you know a combination of username and password or PIN
- Something you have a smart card or security token.

Something you have (smart card) plus something you know (PIN), improves user-access security within corporate network environments. Smart cards are used in government agencies, healthcare companies and the finance industry.

HP ProtectTools Smart Card Manager provides authentication software for the smart card. The Smart Card Reader module works with the HP ProtectTools Security Manager and enables the user to setup, use, and manage the smart card. This allows strengthened security with HP patented technology.

- Protects against unauthorized access with smart card technology
- Delivers even greater security when combined with a HP ProtectTools smart card and the HP ProtectTools Security Software
- Combination of username and password or pin with a smart card or security token
- Secures online transactions using digital signatures and certificates
- Conforms to industry standards for ease of setup and use
- Delivers long product life and quiet operation with high-impact materials and lubricated keys
- Spill drain feature

Keys	104, 105, 106, 107, 109 layout
	(depending upon country
ere e	

Form factor USB basic smart card keyboard Physical Characteristics Colors Carbonite/Silver

Dimensions (H x W x D) 18.2 x 6.3 x 1.3 in (46.3 x 16.1 x 3.3 cm)

Weight 2 lb (0.9 kg) minimum Operating voltage + 5VDC ± 5 %

Power consumption 100-mA maximum (with four LEDs ON)

System interface USB Type A plug connector ESD CE level 4, 15-kV air discharge

EMI - RFI Conforms to FCC rules for a Class B computing device

Microsoft PC 99 - 2001 Functionally compliant

Languages 30+ available
Keycaps Standard design

Switch actuation 55 g nominal peak force with tactile feedback

Switch life 20 million keystrokes

(using Hasco modified tester)

Switch type Contamination-resistant membrane

Key-leveling mechanisms For all double-wide and greater-length keys

Cable length 6 ft (1.8 m)

Microsoft PC 99 - 2001 Mechanically compliant
Acoustics 43-dBA maximum sound pressure level

Operating temperature 50° to 122° F (10° to 50° C)

Non-operating temperature -22° to 140° F (-30° to 60° C)

Operating humidity 10% to 90% (non-condensing at ambient)

Non-operating humidity 20% to 80% (non-condensing at ambient)

Operating shock 40 g, six surfaces
Non-operating shock 80 g, six surfaces

Operating vibration 2-g peak acceleration
Non-operating vibration 4-g peak acceleration

Drop 26 in (66 cm) on carpet, six-drop sequence (out of box)

Drop 42 in (107 cm) on concrete, 16-drop sequence (in box)

Support All ISO 7816 smart cards
Interface Reads from and writes to all ISO7816-1, 2, 3, 4 memory and

microprocessor smart cards (T=0, T=1)

Chipset SCM STCIII

Standard APIs supported PC/SC, EMV2000, CT-API

Power

USB Port

Short circuit detection (protects smart card and reader) Power supply compliant with ISO7816 and EMV (5V, 60 mA)

Supports 3-V and 5-V cards

SmartCard Function

Power consumption

100-mA maximum draw

Communication

From card

From computer

9600 bps to 330,000 bps 12 Mbps (USB transfer speed)

Up to 100,000 insertion cycles

Landing mechanism

Contact device

Friction contact

Interface modes

Card insertions rating CCID protocol

Reader performance interface USB connection

Europe

2004/108/EC

Electro-magnetic standards

USAFCC part 15

Approvals

CE-Mark, UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC, EMV2000,

USB-IF

Ergonomic Compliance

Kit Contents

ISO 9241-4, TUVGS Keyboard, I/O Security and Documentation CD, warranty card

HP USB PS/2 Washable Keyboard

Keys

104 (US) Layout, 105 (EU) layout - depending upon country

Physical Characteristics

Dimensions

 $(L \times W \times H)$

17.67x 6.62 x 1.38 in (449 x 168 x 35 mm)

Weight

Operating voltage

Power consumption

+ 5VDC ±5% 50-mA maximum (with three LEDs ON)

Electrical

System interface

USB Type A plug connector

1.7 lb (0.77 kg) minimum

ESD

CE level 4, 15-kV air discharge

EMI - RFI

Conforms to FCC rules for a Class B computing device

Microsoft® PC 99 - 2001

Keycaps

Functionally compliant Stepped -profile design

Switch actuation

55-q nominal peak force with tactile feedback

Switch life

20 million keystrokes

Mechanical

Switch type

Contamination-resistant switch membrane For all double-wide and greater-length keys

Key-leveling mechanisms Cable length

7 ft (2.2 m)

Microsoft PC 99 - 2001

Mechanically compliant

Acoustics

43-dBA maximum sound pressure level

Operating temperature

50° to 122° F (10° to 50° C)

Non-operating temperature

4° to 149° F (-20° to 65° C)

Operating humidity

10% to 95% (non-condensing at ambient)

Non-operating humidity

0% to 95% (non-condensing at ambient)

Environmental

Operating shock

40 g, six surfaces

Non-operating shock

80 g, six surfaces

Operating vibration

2-g peak acceleration

Non-operating vibration

4-g peak acceleration

Drop (out of box)

26 in (66 cm) on carpet, six-drop sequence

Drop (in box)

42 in (107 cm) on concrete, 16-drop sequence



Operating system support Windows® 7, Windows Vista, Windows XP Professional

UL, cUL, FCC, CE, TUV GS, VCCI, BSMI, C-Tick, KCC, USB-IF, WHQL, EN/IEC 60601-1, Approvals

IP66/NEMA4X

Ergonomic compliance ANSI HFS 100, ISO 9241-4, and TUVGS

HP USB Mouse

Dimensions $(H \times L \times W)$

1.5 x 4.5 x 2.5 in (3.7 x 11.5 x 6.3 cm)

Weight

0.22 lb (0.10 kg)

Cable length

70.9 in (180 cm)

System requirements

Available USB port

HP USB 1000dpi Laser Mouse

Dimensions $(H \times L \times W)$

1.47 x 4.53 x 2.47 in (37.3 x 114.97 x 62.86 mm)

Weight 3.360 oz (102g)

Cable length

70.9 in (180 cm)

System requirements

Available USB port

Environmental

Operating Temperature

32° to 104° F (0° to 40° C)

Non-operating Temperature

-4° to 140° F (-20° to 60° C)

Operating Humidity

10% to 90%

(non-condensing at ambient)

Mechanical

Resolution

1000dpi

Tracking Speed

45 cm/sec

Cable Length

70.9 in (180 cm)

HP USB PS/2 Washable Mouse

Dimensions (H x L x W) 1.56 x 2.44 x 4.61 in (3.95 x 6.21 x 11.7 cm)

Weight

4.44 oz (126 g)

Environmental

Operating temperature

-32° to 104°F (0° to 40° C)

Non-operating

-4° to 140°F (-20° to 60° C)

temperature

10% to 90% (non condensing at ambient)

Operating humidity Non-operating humidity

10% to 90% (non condensing at ambient)

Operating shock

40 g, 6 surfaces

Non-operating shock

80 g, 6 surfaces

Operating vibration

2 g peak acceleration

Non-operating vibration

4 g peak acceleration

Drop (out of box)

80 cm height onto asphalt tile over concrete or equivalent, 5-drop in 5

direction except the cable face

Electrical

Operating voltage

5 VDC ± 10%

Power consumption

100mA

System consumption

PS/2 mini-din connector

ESD

CE level 4, 15 kV air discharge

EMI-RFI

Conforms to FCC rules for a Class B computing device

Mechanical

Resolution

Microsoft® PC99 - 2001 Functionally compliant 400 ± 20% DPI

Tracking speed

10 in/s (25.4 cm/s) maximum

Acceleration

100 in/s/s (2.54 m/s/s)



Switch actuation

61 g nominal peak force

Switch life

3,000,000 operations (using Hasco modified tester)

Switch type

Low force micro-switches

C d d d d

Tracking mechanism life 155 mi (250 km) at average speed of 10 in/s

Cable length

6 ft (1.8 m)

Microsoft PC99 – 2001 Width Mechanically compliant 8 mm

Scroll wheel Width
Diameter

.

Diameter

1.01 in (25.6 mm)

Maximum rotation speed 48 rats/sec Switch type Light force

Light force micro-switch

Switch life

1 million operations

Regulatory approvals

Mechanical life

Minimum 200,000 revolutions

Regulatory approvals
Compatibility

Compliant

UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC

Operating system support Windows 7, Windows Vista Business 64*, Windows Vista Business 32*, Windows Vista Home Basic 32*, Windows 2000, Windows XP

Professional or Windows XP Home 32* (No driver is required for this device. Native support is provided by the operating system.), xpe,

ce.net, Linux, XP-64

* Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: http://www.windowsvista.com/upgradeadvisor.

For Windows Vista system requirements, visit: http://www.windowsvista.com/systemrequirements.



Hz

Technical Specifications - Environmental Data

Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR®
- EPEAT<Gold> registered in the United States. See http://www.epeat.net for registration status in your country.

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Allin-One PC model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Energy Consumption (in accordance with US ENERGY STAR® test method)

method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60H
Normal Operation (short_Idle)	40.69 W	39.9 W	39.95 W
Normal Operation (Long_Idle)	24.95 W	23.93 W	24.79W
Sleep	1.33 W	1.44 W	1.32 W
Off (WOL enable)	0.95 W	0.98 W	0.91 W

NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

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Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (short_Idle)	138 BTU/hr	136 BTU/hr	136 BTU/hr
Normal Operation (Long_Idle)	85 BTU/hr	81 BTU/hr	84 BTU/hr
Sleep	4.5 BTU/hr	4.9 BTU/hr	4.5 BTU/hr
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr

^{*} Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance

(in accordance with Sound Power Sound Pressure ISO 7779 and ISO 9296) (LWAd, bels) (LpAm, decibels)

Typically Configured - 3.0 22.1 ldle

Fixed Disk - Random 3.0 22.6 writes

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- · 6 USB ports
- · 2 memory slots
- 1 Mini PCle half-length slot
- 1 mSATA slot
- 1 2.5" internal bay supporting up to Two 2.5" hard drives (HDD/SSD/SED/SSHD)
- 1 5.25" external supporting optical drive

<edit list of features as required>

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium



Technical Specifications - Environmental Data

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986)
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the <gold> level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 2.7% post-consumer recycled plastic (by wt.)
- This product is 98% recycle-able when properly disposed of at end of life.

Packaging Materials

PAPER/Corrugated

2402 g

PAPER/Cardboard & misc

2370 g

Internal: PLASTIC/EPE-Expanded Polyethylene 658 g

PLASTIC/Polyethylene low density

500 g

PLASTIC/Plast. Other

The corrugated packaging material contains at least 60% recycled content.

The plastic packaging materials contains at least 0 % recycled content.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging Usage

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

and Recycling

End-of-life Management Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

> The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.



Technical Specifications - Environmental Data

Hewlett-Packard Corporate Environmental Information For more information about HP's commitment to the environment:

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_

ISO_14K_Certificate.pdf

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



Options and Accessories (sold separately)

AFTER MARKET OPTIONS:	
MEMORY	Part Number
HP 2GB DDR3-1600 (PC3-12800) SODIMM	B4U38AA
HP 4GB DDR3-1600 (PC3-12800) SODIMM	B4U39AA
HP 8GB DDR3-1600 (PC3-12800) SODIMM	B4U40AA
TIP 60B BB/C3-1000 (FC3-12000) GCBININI	54040/41
DATA STORAGE DRIVES AND ACCESSORIES	Part Number
HP 1TB, 7200 rpm, SATA -6.0 Gb/s	QK555AA
HP 500GB, 7200 rpm, SATA -6.0 Gb/s	QK554AA
HP 500GB SATA , 6G (8GB cache) Solid State Hybrid Drive (SSHD)	E1C62AA
HP 128GB SATA Solid State Drive	QV063AA
HP Slim SATA DVD-ROM Drive	VP033AA
HP Slim SATA BDXL Blu-Ray Writer Drive	E0X94AA
HP Slim SATA SuperMulti DVD Writer Drive	QS209AA
HP Slim Removable SATA HDD Frame/Carrier	C1N41AA
HP Slim Removable SATA HDD Carrier	E3F39AA
INPUT DEVICES - KEYBOARD AND MOUSE COMBO	Part Number
HP USB PS/2 Washable Keyboard & Mouse	BU207AA
HP Wireless Keyboard & Mouse	QY449AA
HP USB Keyboard and Mouse + mousepad	B1T09AA
INPUT DEVICES - KEYBOARD	Part Number
HP USB Smart Card (CCID) Keyboard	E6D77AA
HP USB Keyboard	QY776AA
INPUT DEVICES - MOUSE	Part Number
HP USB 1000dpi Laser Mouse	QY778AA
HP USB Mouse	QY777AA
HP Mouse Pad	AT485AA
SECURITY	Part Number
HP UltraSlim Cable Lock	H4D73AA
GRAPHICS - VIDEO ADAPTERS AND CABLES	Part Number
HP DisplayPort Cable Kit	VN567AA
HP DisplayPort To DVI-D Adapter	FH973AA
HP DisplayPort To HDMI Adapter	BP937AA
HP DisplayPort To VGA Adapter	AS615AA
HP DVI Cable	DC198A
USB Graphics Adapter	NL571AA
HP Dual Output USB Graph Adapter	C5U89AA
STANDS AND MONITOR ARM	Part Number
HP Single Monitor Arm	BT861AA
HP Quick Release	EM870AA
MISCELLANEOUS	Part Number
Belkin 7-Outlet Surge Protector for North America 120V	AG290AA
Belkin USB to Serial Adapter	EM449AA
Belkin CAT5e Patch Cable RJ45/RJ45	AH122AA
HP Business Headset	QK550AA



Part Number

QuickSpecs

HP ProOne 400 G1 All-in-One Business PC (21.5" Touch)

Part Number

Options and Accessories (sold separately)

HP EliteDisplay E201 20-inch LED Backlit Monitor

C9V73AA
HP EliteDisplay E221 21.5-inch LED Backlit Monitor

C9V76AA
HP EliteDisplay E231 23-inch LED Backlit Monitor

C9V75AA
HP LA2405x 24-inch LED Backlit Monitor

HP EliteDisplay E271i 27-inch LED Backlit Monitor

HP EliteDisplay E271i 27-inch LED Backlit Monitor

HP EliteDisplay E221c 21.5-inch WebCam LED Backlit Monitor

D9E49AA
HP L2206tm 21.5-inch LED Backlit Touchscreen Monitor

B0L55AA

LANDESK SOFTWARE (E-DELIVERY)

Contact your HP representative for available options.

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HOW TO MAKE A MCDONALD'S SHAMROCK SHAKE AT HOME THE DAILY MEAL | 3/14/14

Starbucks Secret Menu: The Ultimate Guide

The whole world has gone green for McDonald's Shamrock Shake, available across the country until St. Patrick's Day. It's inspired a cult-like following, a Harlem Shake meme (yes, really), and dozens of copy-cat recipes. And we can see why everyone wants to try it at home. Since the Shamrock Shake launched in 1970, more than 60 million Shamrock Shakes have been sold in McDonald's nationwide.

Click here for the How to Make a Shamrock Shake at Home Slideshow

And surprisingly, the history of the Shamrock Shake is about more than just the green. According to McDonald's, the Philadelphia Eagle's tight end Fred Hill was looking for a way to help his 3-year old daughter get treatment for leukemia in 1974. His vision: the Ronald McDonald's House for children and families to have a "home away from home" treatment. Hill, with the support of McDonald's founder Ray Kroc and local McDonald's managers, worked up a Shamrock Shake promotion with profits going toward the cause; the first-ever Ronald's McDonald's House opened near the Children's Hospital of Philadelphia in 1974.

But of course, paying for a signature green shake with a maraschino cherry on top has a price to your waistline — a cool 530 calories and 15 grams of fat in a 12-ounce Shamrock Shake. (At least, Philadelphia magazine points out, there's 11 grams of protein in it.) The pro of making one at home is that you can easily control your portion sizes and make a less-fattening version. However, there's also a con — you can feel free to add as much whipped cream, chocolate syrup, Oreos, and whiskey as you want — which may result in an even bigger calorie-buster than the Mickey D's version.

Fortunately, it's not hard to make your own Shamrock Shake at home. If you have the supplies for a vanilla milkshake, plus extra essentials for baking, you have basically all you need to make the shake yourself. However, there are lots of ways to update the Shamrock Shake — including a little boozy treat for the adults. (Because why drink green beer when you can drink an alcoholic, and green, milkshake?) Click ahead for tips and recipes on how to make the Shamrock Shake at home.

See our slideshow above to find out how to make homemade Sharmrock Shake.

Starbucks Secret Menu: The Ultimate Guide How to Make a Wendy's Frosty at Home 6 Dairy Milk Alternatives How to Make a Pumpkin Spice Latte at Home 12 Quick and Easy Drinks to Start the Day



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Credit: Flickr/ floridecires

How to Make a McDonald's Shamrock Shake at Home | Kitchen Daily



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STEP 1: PERFECT THE VANILLA MILKSHAKE

If you can make a vanilla milkshake, you're more than prepared to make a Shamrock Shake at home. All you need is vanilla ice cream and milk to make the base.

Credit: Flickr/ mackenzie photo



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STEP 2: ADD PEPPERMINT EXTRACT

Peppermint extract goes a long way, remember, so don't overdo it in your vanilla milkshake. When adding the ingredients to a blender, add the peppermint extract for a creamy mint treat. Our best proportions for a shamrock shake:

2 cups vanilla ice cream3⁄4 cup of milk3⁄4 teaspoon peppermint extract

Credit: Flickr/ kfisto



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STEP 3: ADD FOOD COLORING

As the final touch to your Shamrock Shake, add up to eight drops of green food coloring. (Remember, like peppermint extract, it's a potent ingredient — so don't overdo it.) Blend all ingredients on high speed until smooth, and you're good to go. (Whipped cream and a maraschino cherry not included.)

Credit: Flickr/_kasey



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THE PIMPED-OUT SHAMROCK SHAKE

There's lots of ways to amp up your average Shamrock Shake. The easiest way? Add some chocolate syrup to your glass before pouring in the shake — consider it a homemade version of mint chocolate chip ice cream. Or, as Tasty Kitchen does it, add some Oreos for a crunchy milkshake. The ultimate add-on for a Shamrock Shake? A Girl Scouts Thin Mint. That is, if you're willing to sacrifice a few for a shake.

Credit: Flickr/ floridecires



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THE ADULT SHAMROCK SHAKE

For an Irish treat, you had better add some Irish whiskey to the mix. Jameson or Tullamore is always a good basic Irish whiskey to add to the blender — but keep away from the kids. Not a whiskey fan? Peppermint Schnapps can add a minty kick to your shake, or crème de menthe, as in the Twinkiebelle (adult) milkshake. (If you can still get your hands on a Twinkie, that's one good way to spice up a Shamrock Shake.) There's more than one way to spike a Shamrock Shake.

Credit: Flickr/ dallasfoodie



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THE LIGHT SHAMROCK SHAKE

Like we said, we can't — or don't want to — control just how much whipped cream or ice cream we're adding to our Shamrock Shakes at home. If you're looking to avoid the calories, try low-calorie frozen yogurt and skim milk instead, and avoid the toppings at all costs. Want to add some vitamins and protein to the shake? We like Peanut Butter and Pepper's healthy recipe for a Shamrock Shake, with a banana, Greek yogurt, and coconut milk.

Credit: Flickr/ elenas pantry

3/12/2014

Date:

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
	Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4)
	years immediately preceding the date of this certification; or,
2.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4.	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. X	Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules. Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.
require against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency acted from any unpaid balance on the contract or purchase order.
the requ	mission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and zes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid uired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information d by the Tax Commissioner to be confidential.
and ac	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate as during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Bidder:	Divergetos Resources Inc

President

Title:

RFQ	No.	ERP140039

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE: Diversatec Resources, Inc.	5.		
Vendor's Name:			
Authorized Signature: Calmum M. From	et	Date:	3-14-14
State of Ohio			
County of Delaware , to-wit:			
Taken, subscribed, and sworn to before me this 11th	day of March		. 20 14.
My Commission expires October 1	. 20 <i>18</i>		
ANAL SEALERE	NOTARY PUBLIC _	Cenn	e Klann
ANNE KRAMER			sing Affidavit (Revised 07/01/201
NOTARY PUBLIC - OHIO	18		

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety, understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Diversatec Resources,	Inc
(Company)	tion or god to copy the traction of the continue or proper to make the proper to 1994 the Administration of the continue of th
Carmen M. 4	rest
(Authorized Signature)	
Carmen Frost, Preside	nt
(Representative Name, Title)
740-965-3400	740-965-3403
(Phone Number)	(Fax Number)
3/12/14	
(Date)	

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: ERP140039

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: Thereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

	umbers Received: x next to each addendum receiv	ved)	
	Addendum No. 1		Addendum No. 6
	Addendum No. 2		Addendum No. 7
	Addendum No. 3		Addendum No. 8
	Addendum No. 4		Addendum No. 9
	Addendum No. 5		Addendum No. 10
further unders discussion hel	tand that any verbal representated between Vendor's representated	tion mad tives an	denda may be cause for rejection of this bid. I de or assumed to be made during any oral and any state personnel is not binding. Only the fications by an official addendum is binding.
			Diversatec Resources, Inc.
			Company
		_Ca	armen M. frost Authorized Signature
			03-14-14 Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.