



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 3

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 621201

SO Doc Code: CRFQ

Procurement Type: Central Purchase Order

SO Dept: 0803

Vendor ID: 000000219290

SO Doc ID: DOT2000000034

Legal Name: Y & S TECHNOLOGIES INC

Published Date: 9/25/19

Alias/DBA:

Close Date: 10/15/19

Total Bid: \$19,367.00

Close Time: 13:30

Response Date: 10/11/2019

Status: Closed

Response Time: 1:46

Solicitation Description: DELL POWER EDGE R740
SERVERS OR EQUAL

Total of Header Attachments: 3

Total of All Attachments: 3



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Solicitation Response

Proc Folder : 621201
 Solicitation Description : DELL POWER EDGE R740 SERVERS OR EQUAL
 Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2019-10-15 13:30:00	SR 0803 ESR10101900000002314	1

VENDOR
000000219290 Y & S TECHNOLOGIES INC

Solicitation Number: CRFQ 0803 DOT2000000034

Total Bid : \$19,367.00 Response Date: 2019-10-11 Response Time: 01:46:16

Comments: All items are new and sealed and come with the full manufacturer warranty requested by the Agency.

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
 (304) 558-2402
 crystal.g.hustead@wv.gov

Signature on File

FEIN #

DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Dell Power Edge R740XD Rack Server or Equal	1.00000	EA	\$8,346.000000	\$8,346.00

Comm Code	Manufacturer	Specification	Model #
43211501			

Extended Description : Dell Power Edge R740XD Rack Server
See 3.1.1 for configuration

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Dell Power Edge R740 Rack Server	1.00000	EA	\$11,021.000000	\$11,021.00

Comm Code	Manufacturer	Specification	Model #
43211501			

Extended Description : Dell Power Edge R730
See 3.1.2 for configuration



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 21 - Info Technology

Proc Folder: 621201

Doc Description: DELL POWER EDGE R740 SERVERS OR EQUAL

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2019-09-25	2019-10-15 13:30:00	CRFQ 0803 DOT2000000034	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

*Yestechologies 383 Kingston Ave Sec # 357
 Brooklyn NY 11213 718-473-284 X203*

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
 (304) 558-2402
 crystal.g.hustead@wv.gov

Signature X

FEIN # *611569225*

DATE *10/10/2019*

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH A CONTRACT FOR THE ONE-TIME PURCHASE OF TWO (2) DELL POWER EDGE R740 SERVERS OR EQUAL PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO CRYSTAL.G.HUSTEAD@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS.

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV25305-0430 US	DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV 25305-0430 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Dell Power Edge R740XD Rack Server or Equal	1.00000	EA	<i>\$ 8,316.00</i>	<i>\$ 8,316.00</i>

Comm Code	Manufacturer	Specification	Model #
43211501	<i>Lehoro</i>	<i>MEETS SPECIFICATIONS</i>	<i>SR650</i>

Extended Description :
Dell Power Edge R740XD Rack Server
See 3.1.1 for configuration

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV25305-0430 US	DIVISION OF HIGHWAYS INFORMATION SERVICE DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM 920 CHARLESTON WV 25305-0430 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Dell Power Edge R740 Rack Server	1.00000	EA	<i>\$ 11,021.00</i>	<i>\$ 11,021.00</i>

Comm Code	Manufacturer	Specification	Model #
43211501	<i>Lehoro</i>	<i>MEETS SPECIFICATIONS</i>	<i>SR650</i>

Extended Description :
Dell Power Edge R730
See 3.1.2 for configuration

SCHEDULE OF EVENTS

Line	Event	Event Date
1	VENDOR QUESTION DEADLINE	2019-10-02

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. 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.

2. 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.

A pre-bid meeting will not be held prior to bid opening

A **MANDATORY PRE-BID** meeting will be held 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.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

SRAUL FINCH SALES MANAGER
(Name, Title)

SRAUL FINCH SALES MANAGER
(Printed Name and Title)

303 KINGSECH AVE SEC# 357 BROOKLYN NY 11213
(Address)

718-473-0284 X203 718-360-9627
(Phone Number) / (Fax Number)

SRAUL@YANJSECH.COM
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

YES TECHNOLOGIES
(Company)

[Signature] SRAUL FINCH SALES MANAGER
(Authorized Signature) (Representative Name, Title)

SRAUL FINCH SALES MANAGER
(Printed Name and Title of Authorized Representative)

10/10/2019
(Date)

718-473-0284 X203 718-360-9627
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DOT200000034

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

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

TEST Technologies

Authorized Signature

[Signature]

Date

10/10/2019


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

EXHIBIT A - PRICING PAGE

CRFQ DOT2000000034

TOTAL EQUIPMENT PRICE

LOCATION - BUILDING 5, ROOM A-920 CHARLESTON, WV 25305

Item Number	Quantity	Description	Unit Price
1	1	Dell PowerEdge R740XD Rack Server or equivalent as specified in 3.1.1	\$ 8,346.00
2	1	Dell PowerEdge R740 Rack Server or equivalent as specified in 3.1.2	\$ 11,021.00
Total Bid Amount 			\$ 19,367.00



Date 10/10/2019

WV DIVISION OF HIGHWAYS
Solicitation: DOT2000000034
Crystal G Husted

DELL POWER EDGE R740 SERVERS OR EQUAL

Dear Crystal,

Proposal

After extensive research, we are proposing a solution by Lenovo. Lenovo is the leading PC manufacture in the world. Over the past **30 quarters** they have had the highest growth rate of any major PC manufacture in the world. Their US headquarters is located in Raleigh, North Carolina and all tech support is handled by US technicians based out of Atlanta, GA. Lenovo has acquired prestigious accounts, including the NYC Board of Education (largest school district in the country), Clark County School District (Las Vegas) and the United Nations Etc.

Lenovo Corporation has been in business for over 25 years. They began as a small manufacturer of PC clone computers and 10 years ago they purchased the IBM ThinkPad line computers. Just as, IBM they value engineering and quality. The products that they release meets the heights standards of quality and durability. **Gartner**, an independent and well known testing lab, rates Lenovo as the leader in this industry. We will be attaching the **Gartner Table** for your consideration.

Solution

QTY 1 DELL POWER EDGE R740XD SERVERR OR EQUIVALENT RACK SERVER

For this solution, we are proposing **QTY 1 of the Lenovo Think System SR650 MFR# 7X06CTO1WW1 which comes with the 5 year NBD Warranty which exceeds the specifications requested. Please see the full build below on what we are proposing. I have attached Data sheets on the server for your convenience.**

Lenovo SR650 (Configuration is Per Machine)

Part number	Product Description	Qty
7X06CTO1WW 1	SR650_ 1x 6136 : ThinkSystem SR650 -	1
AUVW	ThinkSystem SR650 3.5" Chassis with 8 or 12 bays	1
AWE3	Intel Xeon Gold 6136 12C 150W 3.0GHz Processor	1
AUND	ThinkSystem 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM	4
AUR9	ThinkSystem 2U 3.5" SATA/SAS 12-Bay Backplane	1
5977	Select Storage devices - no configured RAID required	1
B31E	ThinkSystem RAID 930-16i 8GB Flash PCIe 12Gb Adapter	1
AUUD	ThinkSystem 3.5" 2TB 7.2K SATA 6Gb Hot Swap 512n HDD	12
AUR4	ThinkSystem 2U x8/x8/x8 PCIE FH Riser 1	1
AUKL	ThinkSystem 10Gb 2-port Base-T LOM	1
AUZY	ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	1
AVWF	ThinkSystem 1100W (230V/115V) Platinum Hot-Swap Power Supply	2
B0N6	1.5m, 13A/100-250V, C13 to C14 Jumper Cord	2
AUPW	ThinkSystem XClarity Controller Standard to Enterprise Upgrade	1
AXCA	ThinkSystem Toolless Slide Rail	1
AURD	ThinkSystem 2U left EIA Latch Standard	1
B0MJ	Feature Enable TPM 1.2	1
AUQB	Lenovo ThinkSystem Mainstream MB - 2U	1
AWFF	ThinkSystem SR650 WW Lenovo LPK	1
AUTS	ThinkSystem 2U 12 3.5"HDD Conf HDD sequence Label	1
AUTA	XCC Network Access Label	1
AVJ2	ThinkSystem 4R CPU HS Clip	1
AUS6	Lenovo ThinkSystem 1U height CPU HS Dummy	1
AUSF	Lenovo ThinkSystem 2U MS CPU Performance Heatsink	1
AURL	Lenovo ThinkSystem 6038 Fan Dummy	1
B173	Companion Part for XClarity Controller Standard to Enterprise Upgrade in Factory	1
AURV	Lenovo ThinkSystem 2U MS air duct for 1U HS	1
AUTJ	ThinkSystem common Intel Label	1
AURS	Lenovo ThinkSystem Memory Dummy	8
AUTQ	ThinkSystem small Lenovo Label for 24x2.5"/12x3.5"/10x2.5"	1
AWF9	ThinkSystem Response time Service Label LI	1
AUSZ	ThinkSystem SR650 Service Label LI	1
AVWK	ThinkSystem EIA Plate with Lenovo Logo	1
AUTD	ThinkSystem SR650 model number Label	1
AUT8	ThinkSystem 1100W RDN PSU Caution Label	1

AUNP	FBU345 SuperCap	1
AURM	ThinkSystem SR550/SR650/SR590 Right EIA Latch with FIO	1
AURQ	Lenovo ThinkSystem 2U 3FH Riser Bracket	1
AURF	Lenovo ThinkSystem 2U 2FH Riser Dummy	1
AUSA	Lenovo ThinkSystem M3.5" Screw for EIA	8
AURR	ThinkSystem M3.5 Screw for Riser 2x2pcs and Planar 5pcs	2
AUSU	ThinkSystem Package for SR650	1
AUSS	MS 12x3.5" HDD BP Cable Kit	1
AVJ0	ThinkSystem SR650/ST550/ST558 Super Cap Cable	1
B32H	2U Bracket for RAID 930 Adapter	1
AUT1	ThinkSystem SR650 Lenovo Agency Label	1
B0ML	Feature Enable TPM on MB	1
A2HP	Configuration ID 01	1
5374CM1	Configuration Instruction	1
B33K	ThinkSystem RAID 930-16i 8GB Flash PCIe 12Gb Adapter Placement	1
A2JX	Controller 01	1
A2HP	Configuration ID 01	1
5WS7A01544	Foundation Service - 5Yr Next Business Day Response	1
00WH545	2.8m, 13A/120V, C13 to NEMA 5-15P (US) Line Cord	2

QTY 1 DELL POWER EDGE R740 RACK SERVER OR EQUAL

For this solution, we are proposing QTY 1 of the **Lenovo Think System SR650 MFR# 7X06CTO1WW2** which comes with the **5 year NBD Warranty** which exceeds the specifications requested. Please see the full build below on what we are proposing. I have attached Data sheets on the server for your convenience.

Part number	Product Description	Qty
7X06CTO1WW	SR650_2x6136 : ThinkSystem SR650	1
AUVV	ThinkSystem SR650 2.5" Chassis with 8, 16 or 24 bays	1
AWE3	Intel Xeon Gold 6136 12C 150W 3.0GHz Processor	2
AUND	ThinkSystem 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM	4
AURA	ThinkSystem 2U/Twr 2.5" SATA/SAS 8-Bay Backplane	1
5977	Select Storage devices - no configured RAID required	1
AUNJ	ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter	1
B49N	ThinkSystem 2.5" Intel S4610 960GB Mainstream SATA 6Gb Hot Swap SSD	5
AUR4	ThinkSystem 2U x8/x8/x8 PCIE FH Riser 1	1
AUKL	ThinkSystem 10Gb 2-port Base-T LOM	1
AUZY	ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	1

AVWF	ThinkSystem 1100W (230V/115V) Platinum Hot-Swap Power Supply	2
B0N6	1.5m, 13A/100-250V, C13 to C14 Jumper Cord	2
AUPW	ThinkSystem XClarity Controller Standard to Enterprise Upgrade	1
AXCA	ThinkSystem Toolless Slide Rail	1
AURD	ThinkSystem 2U left EIA Latch Standard	1
B0MJ	Feature Enable TPM 1.2	1
AUQB	Lenovo ThinkSystem Mainstream MB - 2U	1
AWFF	ThinkSystem SR650 WW Lenovo LPK	1
AVEQ	ThinkSystem 8x1 2.5" HDD Filler	2
AVEN	ThinkSystem 1x1 2.5" HDD Filler	3
AUTA	XCC Network Access Label	1
AVJ2	ThinkSystem 4R CPU HS Clip	2
AUSF	Lenovo ThinkSystem 2U MS CPU Performance Heatsink	2
AUSG	ThinkSystem SR650 6038 Fan module	1
B173	Companion Part for XClarity Controller Standard to Enterprise Upgrade in Factory	1
AUTJ	ThinkSystem common Intel Label	1
AURS	Lenovo ThinkSystem Memory Dummy	20
AUTQ	ThinkSystem small Lenovo Label for 24x2.5"/12x3.5"/10x2.5"	1
AWF9	ThinkSystem Response time Service Label LI	1
AUSZ	ThinkSystem SR650 Service Label LI	1
AVWK	ThinkSystem EIA Plate with Lenovo Logo	1
AUTD	ThinkSystem SR650 model number Label	1
AUT8	ThinkSystem 1100W RDN PSU Caution Label	1
AUNP	FBU345 SuperCap	1
AURQ	Lenovo ThinkSystem 2U 3FH Riser Bracket	1
AURF	Lenovo ThinkSystem 2U 2FH Riser Dummy	1
AUSA	Lenovo ThinkSystem M3.5" Screw for EIA	4
AURR	ThinkSystem M3.5 Screw for Riser 2x2pcs and Planar 5pcs	2
AUSU	ThinkSystem Package for SR650	1
AUSH	MS First 2U 8x2.5" HDD BP Cable Kit	1
AVJ0	ThinkSystem SR650/ST550/ST558 Super Cap Cable	1
AUT1	ThinkSystem SR650 Lenovo Agency Label	1
AUTY	ThinkSystem 12-15 sequence Label for 24x2.5" Chassis	1
AUTF	ThinkSystem 4-7 sequence Label for 2U 2.5"	1
B0ML	Feature Enable TPM on MB	1
A2HP	Configuration ID 01	1
5374CM1	Configuration Instruction	1
AVE3	ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter placement	1
A2JX	Controller 01	1
A2HP	Configuration ID 01	1

5WS7A01544	Foundation Service - 5Yr Next Business Day Response		1
00WH545	2.8m, 13A/120V, C13 to NEMA 5-15P (US) Line Cord		2

Warranty

For both servers Y&S is providing a Lenovo 5 year NBD onsite warranty

Terms and conditions

Y&S accepts all terms and conditions of this bid.

Insurance

Y&S Technologies maintains all required commercial insurance policies and will be more than happy to provide proof of insurance if the State requests it.

Pricing

Please see bid paperwork for pricing.

Delivery

We can provide delivery within 14 days ARO. Our price includes shipping and handling.

Y&S References

Y&S has provided solutions like this throughout the country. Here are a few references for your convenience:

- 1) **West Virginia Alcohol Beverage Control Administration.** The point of contact is Randy Haynes. We supplied over 6 Lenovo servers in January of 2018 worth over \$50,000 we were over \$30,000 dollars cheaper than the next bidder.
- 2) **Applied Materials** in Hopewell Junction, NY. Point of Contact is Paul Llanos, Ph #845-227-0298, E-mail Paul.Llanos@amat.com. We provided Applied Materials with over \$700,000 worth of System X Server equipment over the past couple of years.
- 3) **Reginal Transportation Authority** in Dayton, OH. Point of Contact is Jim Canaday, Ph #937-425-8320, E-mail jcanaday@greaterdaytonrta.org. We provided 5 Lenovo System X servers with Microsoft Licenses worth over \$189,000 in June 2016.
- 4) **Knoxville Utility Board** in Knoxville, KY. Point of Contact is Rebekah Taylor. Ph #865-558-2307, E-mail Rebekah.taylor@kub.org. KUB purchases over \$150,000 worth of System X servers over the past couple of years.
- 5) **Craven County Schools**, in New Bern, NC. The point of contact is Lori Prescott who can be reached at 252-514-6357 or by E-mail at Lori.prescott@craven.k12.nc.us. We supplied over 750 Lenovo Chromebooks with services valued over \$350, 000 in over the past couple of years.
- 6) **Wilton Public Schools** in Wilton, CT. The point of contact is Helaine Walker who is the senior Admin for the IT Director. Helaine can be reached by 203-834-4874 or by walkerh@wilton.k12.ct.us. We sold over \$575,000 worth of Lenovo Laptops and accessories with Image services.

Point of Contact

Saul Finck (Sales Manager) will be your point of contact for this contract and will assist the States and its personnel in any matters related to this contract. Contact Information is as follows: PH #718-473-0284 Ext 200. E-mail saoul@yandstech.com.

Brief History of our Company

Y&S Technologies have been in business for over twelve years with our primary focus on the education and government sector. Our senior staffs have over 40 years of combined experience, selling and servicing the academic and government market. Y & S Technologies was established in the midst of the worst recession since the Great Depression. We have not only survived but we have grown our business every year by a minimum of 20%. We offer our customers highly competitive solutions, the best products at the best prices, and a high level of service and support. These directly contribute to our successful and expanding business.

If you should need any further information please feel free to contact me at your earliest convenience. Thanking for the opportunity to do business with your city.

Saul Finck
Sales Manager
Y&S Technologies

Lenovo ThinkSystem SR650

High-performance scalable server



For Compute-Intensive Workloads

For medium to large enterprises, and managed and cloud service providers, Lenovo ThinkSystem SR650 is the optimum 2U, two-socket server—the most widely used server type worldwide. It's engineered to deliver high performance with 205W CPUs, low-latency NVMe drives, and high-power GPUs.

With Lenovo's history of reliability, the highly flexible and configurable SR650 is the ideal platform for hyperconverged infrastructure (HCI) or software-defined storage (SDS). It provides a solid foundation for: 1) transforming physical resources into services, using validated designs for hybrid cloud; 2) performing analytics on streaming data, using validated designs for Big Data; and 3) increasing productivity of virtualized transactional systems, using validated designs for OLTP databases.

Versatile and Scalable

ThinkSystem SR650 incorporates up to two powerful Intel® Xeon® processor Scalable family CPUs, with 27 percent more cores and twice the memory capacity of the previous generation server*. It supports two 300W high-performance GPUs and ML2 NIC adapters with shared management. Unique Lenovo AnyBay technology provides the flexibility to mix-and-match SAS/SATA HDDs/SSDs and NVMe SSDs in the same drive bays. Four direct-connect NVMe ports on the motherboard provide ultra-fast read/writes with NVMe drives and reduce costs by eliminating PCIe switch adapters. Plus, storage can be tiered for greater application performance, to provide the most cost-effective solution. Optional mirrored M.2 drives ensure reliability and quick OS initialization. SR650 also features 80 PLUS Platinum and Titanium PSUs, as well as continuous operation at 45°C, to reduce energy costs.

Easily Managed

Lenovo XClarity Controller is an all-new hardware embedded management engine common in every ThinkSystem server. XClarity Controller features an uncluttered graphical user interface, industry standard Redfish-compliant REST APIs, and enables booting in half the time of prior generation servers, with up to 6x faster firmware updates.

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking. Via reusable patterns and policies, it ramps up and scales infrastructure provisioning and maintenance. It serves as a central integration point to extend your data center management processes to physical IT. Running XClarity Integrators in external IT applications, or integrating through REST APIs, helps you further speed services provisioning, streamline IT management, and contain costs.

Lenovo servers continue to be the industry's #1 most reliable¹, with the industry's highest customer satisfaction¹ rating.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

Lenovo™

WWW.LENOVO.COM

ThinkSystem



Specifications

Form Factor/Height	2U rack server
Number of Processors	Up to 2x Intel® Xeon® Platinum processors, up to 205W
Memory	Up to 3TB ⁵ in 24x DIMM slots using 128GB DIMMs; 2666MHz TruDDR4
Expansion Slots	Up to 7x PCIe 3.0 via multiple riser options, including 1x dedicated PCIe slot for RAID adapter
Drive Bays	Up to 24 HS bays (incl. 4 or 8 AnyBay): plus up to 2x mirrored M.2 boot (opt. RAID 1)
HBA/RAID Support	Hardware RAID (up to 24 ports) with flash cache; up to 16-port HBAs
Security and Availability Features	TPM 1.2/2.0; PFA; HS/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front-access diagnostics via dedicated USB port
Network Interface	2/4-port 1GbE LOM; 2/4-port 10GbE LOM (Base-T or SFP+); 1x dedicated 1GbE mngmt port
Power (Energy Star 2.0 compliant)	2x hot swap/redundant: 550W/750W/1100W/1600W 80 PLUS Platinum; or 750W 80 PLUS Titanium
Systems Management	XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management
OSes Supported	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware vSphere. Visit lenovopress.com/osig for details.
Limited Warranty	1- and 3-year customer replaceable unit and onsite service, next business day 9x5; opt. service upgrades

* Compared to Lenovo x3650 M5.; ¹2016-2017 Global Hardware, Server OS Reliability Report, ITIC; October 2016.

²H16 Corporate IT Buying Behavior and Customer Satisfaction Study, TBR; December 2016.; ³1.5TB at GA; 128GB DIMMs available in the near future. Available prior to GA via special bid.

Featured Options

NVIDIA Tesla P100 16GB PCIe Passive GPU	Intel OPA 100 Series Single-port PCIe 3.0 x16 HFA	2.5-inch 7.68TB SAS 12Gb Hot-Swap SSD
7X67A00068	00WE027	7N47A00122
Designed to boost throughput for HPC and hyperscale data centers	Designed for HPC workloads with low end-to-end latency	High-performance/reliability solution for read/capacity-intensive applications

Visit [Options](#) for more information.

For More Information

To learn more about the Lenovo ThinkSystem SR650, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specs, consult the [SR650 Product Guide](#).

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