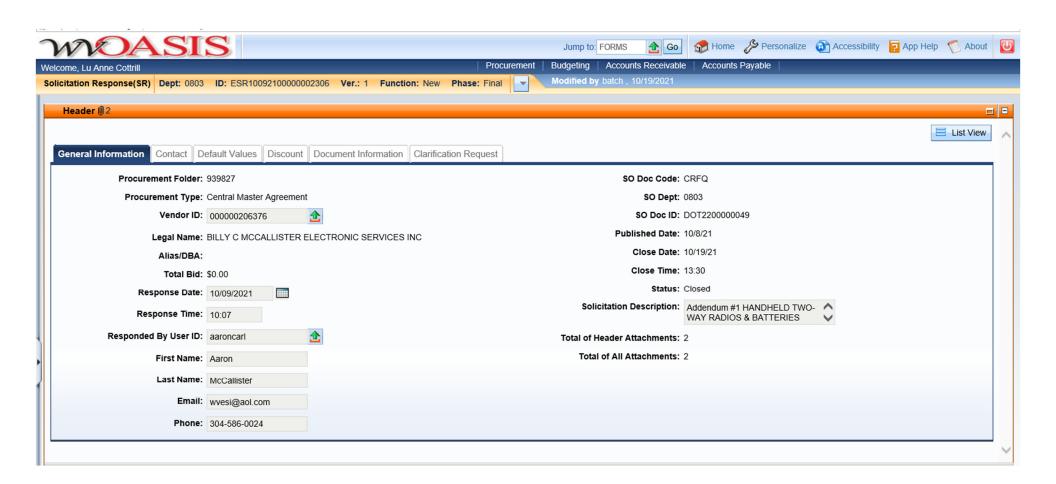


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

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.





State of West Virginia Solicitation Response

Proc Folder: 939827

Solicitation Description: Addendum #1 HANDHELD TWO-WAY RADIOS & BATTERIES

Proc Type: Central Master Agreement

 Solicitation Closes
 Solicitation Response
 Version

 2021-10-19 13:30
 SR 0803 ESR10092100000002306
 1

VENDOR

000000206376

BILLY C MCCALLISTER ELECTRONIC SERVICES INC

Solicitation Number: CRFQ 0803 DOT2200000049

Total Bid: 0 Response Date: 2021-10-09 Response Time: 10:07:03

Comments:

FOR INFORMATION CONTACT THE BUYER

Jessica L Hovanec 304-558-2314 jessica.l.hovanec@wv.gov

Vendor Signature

Signature X FEIN# DATE

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

 Date Printed:
 Oct 19, 2021
 Page: 1
 FORM ID: WV-PRC-SR-001 2020/05

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	HANDHELD TWO-WAY RADIO	0.00000	EA	187.800000	0.00

Comm Code	Manufacturer	Specification	Model #	
43191510				

Commodity Line Comments: HYTERA BD502

Extended Description:

HANDHELD TWO-WAY RADIO

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	REPLACEMENT BATTERIES	0.00000	EA	46.190000	0.00

Comm Code	Manufacturer	Specification	Model #	
43191510				

Commodity Line Comments: HYTERA 2000mAh

Extended Description:

REPLACEMENT BATTERIES

Date Printed: Oct 19, 2021 Page: 2 FORM ID: WV-PRC-SR-001 2020/05



BD502i and BD552i Two-Way DMR Radios

Compact UHF and VHF BD5i Series radios provide cost-effective and easy-to-use radio communications with excellent performance



Excellent Performance

The BD5i Series radios provide high-quality voice communications with an audio equalizer, and long battery life for up to 16 hours of operation. Excellent reception and digital encoding extends the range of operation. Optional Bluetooth (BD552i-BT) supports wireless audio accessories.

Light and Compact

Weighing less than 9 ounces, the light and compact design makes the BD5i Series easy to carry and operate.

Analog and Digital

Supports both analog and digital DMR operation and can automatically switch between the two modes. This provides flexible operation, and provides an easy and costeffective upgrade path to digital systems.

Rugged and Reliable

The BD5i Series radios meet MIL-STD-810-G for shock and vibration, and are IP54 rated for dust and water resistance to guaranty reliability in harsh environments.



Key Features

A/D ANALOG AND DIGITAL DUAL MODES

- Supports both analog and digital modes
- Allows switching between the two operation modes for communication with analog radios



ANALOG AND DIGITAL AUTO DETECT

- Detects the signal type and automatically switches between analog and digital mode
- Enables simple and cost-effective migration path to digital



RELIABLE AND DURABLE

- $\bullet\,$ Compliant with MIL-STD-810-G for shock and vibration
- IP54 rated for water and dust resistance



AUDIO CHANNEL ANNOUNCEMENT

 Voice announcement of channel number for quick and accurate channel switching, even in low visibility (BD502i only)



BUILT-IN BLUETOOTH

• Built-in Bluetooth enables connectivity to earpieces and other wireless accessories (BD552i-BT models only)



OLED DISPLAY

 High contrast display for Channel number, Caller ID, Zone number, battery power, and high/low power (BD552i only)



LONG-LIFE BATTERY

 Powerful 1500mAh Lithium Ion batteries deliver up to 16 hours of operation in digital mode and 12 in analog mode



HIGH QUALITY AUDIO

- Audio equalizer adjusts low, mid, and high frequency gain
- Provides the best audio performance in noisy or quiet environments



ANTI-INTERFERENCE

• Digital encoding and error correcting reduces signal interference on the same frequency

DMR

DMR

- DMR signaling enables group call, private call, and all call transmitting with PTT ID
- Supports DMR Tier II repeaters to extend coverage



PSEUDO TRUNKING

 This virtual trunking feature automatically uses whichever digital timeslot is free to improve call connectivity and frequency efficiency



VOX

- Voice activated microphone enables hands free operation
- Also supported on external earpiece and microphone accessories



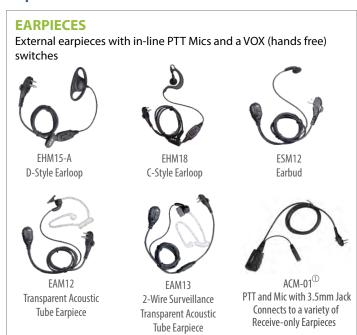
SCANNING

Allows listening to communication activities on other channels

Standard Accessories



Optional Accessories











① Features 3.5mm jack for receive-only ES01 Earbud, ES02 Acoustic Tube Surveillance Earpiece, EH01 C-Style Earpiece, and EH02 Swivel C-Style Earpiece

 $^{@ \}textit{Features 2.5mm jack for receive-only EAS03 Acoustic Tube Earpiece, EHS18 Earloop Earpiece, and ESS10 Earbud } \\$

⁽a) ANO435H13:400-470MHz, 9cm ANO141H06:136-147MHz, 17cm AN0167H06:160-174MHz, 17cm AN0153H08: 147-160MHz/1575MHz, 12cm AN0163H09: 400-470MHz, 16cm AN0153H07: 147-160MHz, 17cm AN0160H13: 146-174MHz, 15cm AN0167H07: 160-174MHz/1575MHz, 12cm AN0167H07: 160-174MHz/1575MHz/15cm AN0167H07: 160-174MHz/15cm AN0167H07: 160-174MHz/15cm

Specifications

•	
	General
Frequency Range	UHF: 400-470 MHz VHF: 136-174 MHz
Channel Capacity	BD502i: 48 Channels (24 Analog, 24 Digital) BD552i: 256 Channels (128 Analog, 128 Digital)
Zone Capacity	BD502i: 3 Zones with 16 Channels per Zone BD552i: 16 Zones with 16 Channels per Zone
Channel Spacing	25/12.5kHz
Operational Voltage	7.2W
Battery	1500mAh (Li-lon) Standard, 2200mAh Optional
Battery Life (5/5/90)	1500mAh: 16 hours Digital, 12 hours Analog 2200mAh: 22 hours Digital, 16 hours Analog
Weight	BD302i: 8.5 ounces (240g) BD352i: 8.8 ounces (250g) (with AN0435W09 antenna and BL1506 battery)
Dimensions	BD502i and BD552i: 4 1/4"x 2 1/8"x 1 5/32"(108 x 54 x 29mm)
Frequency Stability	± 0.5ppm
Antenna Impedance	50Ω
Display	BD352i: 0.91" OLED single-line display
	Receiver
Digital Sensitivity	0.22μV (BER 5%)
Analog Sensitivity	0.22µV (Typical) (12dB SINAD) 0.4µV (20dB SINAD)
Adjacent Selectivity	TIA-603: 60dB @ 12.5kHz, 70dB @ 25kHz
Spurious Response Rejection	TIA-603: 70dB @ 12.5/25kHz
Intermodulation	TIA-603: 65dB @ 12.5/25kHz
Hum and Noise	40dB @ 12.5kHz, 45dB @ 25kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤5%
Audio Response	+1 to -3dB
Conducted Spurious Emission	<-57dBm

All specifications are subject to change without notice due to continuous development.











Hytera North America

3315 Commerce Parkway, Miramar, FL 33025, United States Telephone (954) 846-1011

8 Whatney, Suite 200, Irvine, CA 92618, United States Telephone (949) 326-5740

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Transmitter				
RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF High Power: 4W UHF Low Power: 1W			
FM Modulation	11K0F3E @ 12.5kHz 16K0F3E @ 25kHz			
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW			
Conducted/Radiated Emission	-36dBm <1GHz / -30dBm >1GHz			
Modulation Limiting	±2.5kHz @ 12.5kHz ±5.0kHz @ 25kHz			
FM Hum and Noise	40dB @ 12.5kHz, 45dB @ 25kHz			
Adjacent Channel Power	60dB @ 12.5kHz, 70dB @ 25kHz			
Audio Response	+1 to -3dB			
Audio Distortion	≤3%			
Digital Vocoder Type	AMBE++			
Digital Protocol	ETSI-TS102 361-1,-2,-3			
	Environmental			
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Storage Temperature	-40°F to +185°F (-40°C to +85°C)			
ESD	IEC 61000-4-2 (Level 4) ±8kV Contact, ±15kV Air			
Dust and Water Ingress	IP54 Standard			
Humidity	Per MIL-STD-810 C/D/E/F/G Standard			
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standard			

Ordering Information

Part Number	Description
BD502i-V1	VHF 136-174MHz, 48 Channels
BD502i-U1	UHF 400-470MHz, 48 Channels
BD552i-V1	VHF 136-174MHz, 256 Channels, OLED display
BD552i-U1	UHF 400-470MHz, 256 Channels, OLED display
BD552i-BT-V1	VHF 136-174MHz, 256 Channels, OLED display, Bluetooth
BD552i-BT-U1	UHF 400-470MHz, 256 Channels, OLED display, Bluetooth

Billy C. McCallister Electronic Services Inc.
PAYMENT REMIT ADDRESS:PO BOX 56
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8800 STATE ROUTE 34, PO BOX 474
WINFIELD
WV 25213
304-586-0024
support@esiwv.net
www.esiwv.net



Estimate

ADDRESS SHIP TO ESTIMATE # 2141

DIVISION OF HIGHWAYS, DIVISION OF HIGHWAYS, DATE 09/26/2021

EQUIPMENT DIVISION RT 33 EQUIPMENT DIVISION RT

83 BRUSHY ROAD 33
CROSSING 83 BRUSHY ROAD

CROSSING PO BOX 610

BUCKHANNON, WV 26201

US

CROSSING PO BOX 610

BUCKHANNON, WV 26201

US

TRACKING NO.

CRFQ 0803 DOT2200000049

SKU	ACTIVITY	DESCRIPTION	DESCRIPTION			AMOUNT	
BD502i- V1	BD502i-V1	Analog conventi	Power 1-5 Watts, DMR Tier II and Analog conventional mode w/ 2000 maH battery BL2018		187.80	37,560.00T	
BL2018	BL2018	2000mAh Li-ion	2000mAh Li-ion Battery (RoHS)		46.19	9,238.00T	
HYTERA			SUBTOTAL			46,798.00	
CRFQ 0803	DOT2200000049		TAX			0.00	
HANDHELD TWO WAY RADIOS & BATTERIES			TOTAL	TOTAL			

Accepted By Accepted Date