

# Rugged MCPTT Mobile Computer

# VX500 Public Safety

## Rugged Smart MCPTT for Public Safety-LTE

- Rapid and Clear Real-Time Communication
- Most Suitable in Broad Environments like Emergency and Rescue Sites
- Fast, Stable Network Connectivity
- Designed for User-Convenience
- Powerful Durability for Any Environment
- Long-Lasting Battery



**Bluebird Rugged PTT Reference**  
United Rescue



**International Medical NGO**  
- Bluebird Rugged PTT RP350 used in an emergency, disasters, rescue operations



### BOS™ Solutions & Software

- BOS™ Provisioning
- BOS™ Staging
- BOS™ Kiosk
- BOS™ Keyboard
- BOS™ VoIP, PTT, PTT Essential
- BOS™ EMM
- BOS™ Wi-Fine™ (WiFi analyze application)
- BOS™ Power Manager™

### 3<sup>rd</sup> Party Solutions Integration

- EMM : Airwatch(Vmware workspace ONE), MobileIron, Mobicontrol, IBM Mass360, XenMobile
- PTT : MCPTT, IPPTT

 <b>OS</b> Android 10; Upgradeable to Android 14	 <b>Performance</b> Octa-Core Processor	 <b>Wireless</b> Wi-Fi, Bluetooth 5.0	 <b>Battery</b> User Replaceable, Smart Battery	 <b>Display</b> 5.0" FHD (1920 x 1080)
 <b>Sealing</b> IP68	 <b>Operating Temp</b> -4°F to 131°F -20°C to 55°C	 <b>Camera</b> 13MP Autofocus with flash	 <b>Drop Resistance</b> 1.5m/4.9ft MIL-STD-810G 1.8m/5.9ft. MIL-STD-810G (w Rugged Boot)	

## Key Features

**Real-time based quick and clear communication** Provides best-in class audio performance of clear and quick communication even in any urgent situation with the combination of Bluebird's hardware technology and high quality speaker, receiver, and noise canceling.

**Most Suitable for Broad Mission like Emergency and Rescue** Enables prompt response through the dedicated emergency button for request and users to perform intuitive controls to focus forward with the large display and outdoor readability to read the screen even in bright sunlight.

**Fast, stable network connectivity via the latest OS / CPU** With adopting the latest Android OS and Qualcomm Snapdragon processor proven for public safety usage, VX500 supports stable network connectivity through Bluebird's Mission Critical LTE PTT (Push-to-Talk) technology, ensuring seamless communication in any environment.

**Powerful durability in the harshest environments** Usability-proven in tough and harsh environments Bluebird TankSmith® Technology and Corning® Gorilla® Glass 5 enhance durability of the device meeting 1.8m of drop spec MIL-STD 810 (with Rugged Boot) and IP68 Sealing rate.

**Long-lasting battery power (with Hotswap support)** Available for long-hour running for Public Safety-LTE with support both of high capacity battery and PowerManager Station, one of Bluebird BOS™ (Business Optimizing Solution), providing work continuity through management of battery life and conditions.

**Designed for User Convenience and Environment** Designed for User Convenience and Environment Provides user convenience with ergonomic design, lightness for easy-carry, and dual PTT and dedicated emergency button, as well as supports Advanced Touchscreen technology, multitouch (Finger & Stylus, Glove/Wet)

# Specifications

PERFORMANCE CHARACTERISTICS	
CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz
OS	Android 10; Upgradeable to Android 14 - Upgradeable to Android 14
Memory	4GB RAM / 64GB Flash
PHYSICAL CHARACTERISTICS	
Dimension (L x W x D)	158.26 x 75.8 x 14.9mm
Weight	246g / 286g
Display	5.0" FHD (1920 x 1080)
Touch panel	Corning® Gorilla® Glass 5 Capacitive multi-touch (Stylus, Glove, Wet)
Backlight	LED backlight
Power	User replaceable Battery 3.85V / 4,350 mAh BOS™ PowerManager Station
Hotswap	Support
Expansion Slot	MicroSD 32GB SDHC, up to 128GB SDXC Hybrid Dual SIM Slot
SIM / SAM	(2 Nano SIM or 1 Nano SIM/1 Micro SD) - 1 Nano SIM is supported by micro SD Card Slot Single SAM (Optional)
Interface	USB Type C Connector (USB 2.0) Docking Connector (Charging)
Notification	Audible tone; multi-color LEDs; vibration
Keypad & Button	Dedicated PTT Buttons; Dedicated Emergency Button; Power Button; Volume up/down Buttons; Home, Back, Menu Buttons
Voice & Audio	High-quality dual speakers 4W (2W x 2) Dual noise-cancelling microphones; 3.5mm headset jack
PTT Hot Key	Dedicated PTT Button
WIRELESS WAN DATA AND VOICE COMMUNICATIONS	
Radio Frequency Band	(Optional) Korea : - LTE : B1(2100MHz), B3(1800MHz), B5(850MHz), B7(2600MHz), B8(900MHz), B28R(700MHz) - WCDMA : B1(2100MHz)  EMEA (Optional-TBD) - LTE : B1(2100MHz), B31800MHz), B5(850MHz), B7(2600MHz), B8(900MHz), B20(700MHz) - WCDMA : B1(2100MHz), B8(900MHz)
GPS	A-GPS, GLONASS, BEIDOU, Galileo

WIRELESS LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/k/r/w IPv4, IPv6, 1x1 SISO
Data Rates	5GHz: 802.11a/n/ac – up to 866.7 Mbps 2.4GHz: 802.11b/g/n – up to 300 Mbps
Security and Encryption	WEP (40 or 104bit); WPA/WPA2Personal (TKIP and AES); WPA/WPA2Enterprise (TKIP andAES) — EAP-TTLS(PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP.EAP-PWD  Data in Motion : FIPS 140-2 Level 1 Data at Rest : FIPS 140-2 Level 1
WPAN	
Bluetooth	Bluetooth 5.0, BLE ,Class 2
SENSOR	
Light Sensor	Ambient Light Automatically adjusts display backlight brightness
Motion Sensor	Proximity, Accelerometer, E-Compass, Gyro, barometer
USER ENVIRONMENT	
Operating Temp.	-4° F to 131° F / -20° C to 55° C
Storage Temp.	-22° F to +158° F / -30° C to +70° C
Humidity	95% non-condensing
Drop Spec.	1.5m(4.9ft.) MIL-STD-810G; Multiple 1.2m(4 ft.) drops to tile over concrete at room temperature  1.8m(5.9ft.) MIL-STD-810G; Multiple 1.8m(5.9ft.) drops on concrete at room temperature with the rugged boot accessory
Sealing	IP68
Tumble Spec.	300 1.6 ft./0.5m tumbles; meets and exceeds IEC tumble specification  1,500 1.6 ft./0.5m tumbles; meets and exceeds IEC tumble specifications with the rugged boot accessory
Vibration	4G peak, 5 Hz to 2 kHz, 1 hour duration per axis
Thermal Shock	-40° C to 70° C / -40° F to 158° F rapid transition 10 cycles (1 cycle = 1.25 hours at -40° C and 1.25 hours at 70° C)
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge
ACCESSORIES	
Accessories	1) 1 or 4 slot charging cradle (Includes a bay for Spare Battery Charging) 2) 1 or 4 slot ethernet cradle (Includes a bay for Spare Battery Charging) 3) Rugged boot & Handstrap 4) Protective Film 5) Trigger Handle 6) UHF RFID Reader Sled (w/ RFR900)

\* Specifications are subject to change without notice.

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