DATA SHEET
Enterprise Mobile Computer **VX500**

BLUEBIRD

Ultimate Rugged Mobile Computer

VX500

android enterprise recommended

- Rapid working process through the latest OS and powerful CPU
- Fast and stable communication network
- Powerful durability in the harshest environments
- Quick data capturing through high performing barcode scanner
- Long-lasting battery power
- Mobile device management software eco-system BOS™ support

OS
Android 10; Upgradeable to Android 14

Performance
Octa-Core Processor

Wireless
Wi-Fi, Bluetooth 5.0

Battery
User Replaceable, Smart Battery

Scanning
1D & 2D imager

Sealing
IP68

Operating Temp
-4°F to 131°F
-20°C to 55°C

Camera
13MP Autofocus with flash

Display
5" HD (1280 x 720)

Drop Resistance
1.5m/4.9ft MIL-STD-810G
2.0m/6.6ft. MIL-STD-810G (w Rugged Boot)

Key Features

Best in enterprise-class Qualcomm Snapdragon™ 660 (Octa-Core, 2.2GHz) and Android 10; Upgradeable to Android 14 OS increase work efficiency, supporting users' work process in prompt and stable ways. Users can switch their apps on the display quickly by Universal Flash Storage (UFS) memory which increases the speed of operation.

Fast, stable communication network support VX500 provides superior voice quality, stable connectivity, and clear communication based on Bluebird's innovative technology. The device also provides improved Wi-Fi speed and broader range of networking with applying MU-MIMO technology.

Powerful durability in the harshest environments Usability-proven in touch and harsh environments Bluebird TankSmith® Technology and Corning® Gorilla® Glass 5 enhance durability of the device meeting 2.0m of drop spec MIL-STD 810 (with Rugged Boot) and IP68 Sealing rate. VX500 provides flexible multi-touch including glove, wet, and stylus as well as the best outdoor readability that you can see the display under the very bright sunlight.

High performance barcode scanner for quick data capture The latest scan engine provides superior wide range up to 24-inch/60cm for 1D/2D barcodes, labels, and documents. Workers can scan even poor quality, damaged and dirty barcodes. It delivers lightning fast barcode scan with motion tolerance providing fast scan on pressing the scan button. Large sweet spot makes workers can scan easily with point-and-shoot simplicity.

Long-lasting battery power (Hotswap support) User replaceable battery with high capacity of 4350mAh gets you free from worrying about re-charge. As hotswappable battery it supports work continuity even when unexpectedly detached and prevents data loss. With Bluebird BOS™ (Business Optimizing Solution) Power Manager solution, it enables to manage battery life status which delivers replacement period for aged batteries.

Mobile device management software eco-system BOS™ (Business Optimizing Solution) Bluebird BOS™ (Business Optimizing Solutions) provides various features optimized for use of enterprise device from app development, device deployment, to business performance management as an integrated solution system. With BOS™ you can implement integrated management for VX500 in an efficient way.

Verticals & Applications

Retail
- Price/Inventory Check
- Inventory management
- mPOS (Mobile POS)
- BOPIS (Buy online, Pick up in store)
- Loyalty management
- Sales assistance
- Voice communication
- Electronic coupon
- Coupon verification

Field Service
- Asset management
- Invoicing

T&L
- PoD (Proof of Delivery)

Healthcare
- Patient management
- Staff communication

Restaurant & Hospitality
- Order management
- mPOS (Mobile POS)

Government/Public Sector
- ID Verification / Ticketing

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™

3rd Party Solutions Integration
- EMM : Airwatch(Vmware workspace ONE), MobileIron, Mobicontrol, IBM Mass360, XenMobile
- PTT : MCPTT, IPPTT

Specifications

PERFORMANCE CHARACTERISTICS

CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz
OS	Android 10; Upgradeable to Android 14
Memory	4GB RAM / 64GB Flash (UFS) 4GB RAM / 32GB Flash (UFS) (Optional-TBD)

PHYSICAL CHARACTERISTICS

Dimension (L x W x D)	158.26 x 75.8 x 14.9mm
Weight	246g
Display	5.0" HD (1280 x 720), TFT-IPS
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
SIM / SAM	Hybrid Dual SIM Slot (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, 2x2 MU-MIMO
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 104 bit); WPA/WPA2 Personal (TKIP and AES); WPA/WPA2 Enterprise (TKIP and AES) — 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

DATA CAPTURE

Barcode	SE4710 - 1D & 2D Laser - Field of View (Horizontal : 42°, Vertical : 28°) - Immune to direct light from the sun : 107,639 lux
Biometrics	Fingerprint (via Home button) (Optional)
Camera	Rear – 13MP Autofocus with flash Front – 5MP fixed
NFC	ISO 14443 Type A and B; F; FeliCa, and ISO 15693 cards, MiFare

SENSOR

Light Sensor	Ambient Light Automatically adjusts display backlight brightness
Motion Sensor	Proximity, Accelerometer, E-Compass, Gyro, barometer

USER ENVIRONEMENT

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 2.0m (6.6ft.) MIL-STD-810G; Multiple 2.0m (6.6ft.) 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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