

Touch Mobile Computer

EF500R

The Proven Innovation of Enterprise Mobility

- **Durable and Scratch Resistant**

EF500R's compact, lightweight design incorporates Bluebird's proprietary TankSmith™ technology. The 5-inch high definition multi-touch display is exceptionally resistant to scratches and deep chips.

- **Ergonomic, Single-Handed Operation**

With a weight of only 360 grams, including the extended battery, EF500R is ergonomically designed for comfortable single-handed operation. The multi-touch display can be operated with stylus, fingertips, or gloves even if the display is wet.

- **Multi-OS Support**

EF500R supports multiple operating systems, including Android 5.1, Android 6.X and Windows 10 IoT Mobile Enterprise. In addition, Bluebird can assist with customization of the operating system to enhance security, simplify deployment, and reduce support costs.

- **1D and 2D Scanning**

EF500R has an imager that rapidly reads 1D and 2D barcodes and it also features a 13 MP camera for taking pictures and capturing signatures.

- **Full Voice Capabilities with Push to Talk**

EF500R comes with full voice capabilities; including noise cancelling, communication among employees, whether it is one-to-one or one-to-many.

- **Efficient Power Management**

EF500R uses several power saving technologies and also has an extended battery for an even longer battery cycle. It supports hot swapping for uninterrupted service.



Specification

PERFORMANCE CHARACTERISTICS	
CPU	1.2 GHz Quad Core Processor
Operating System	Windows 10 IoT Mobile Enterprise Android 6.X with GMS
Memory	2GB RAM / 16GB Flash 2GB RAM / 32GB Flash (Optional)

PHYSICAL CHARACTERISTICS	
Dimensions (L x W x D)	166.5 x 88.7 x 28.9 mm 6.56 x 3.49 x 1.14 in.
Weight	12.7 oz. 360g
Display	5.0 inch. HD (1280 x 720)
Imager Window	Corning® Gorilla® Glass 3
Touchpanel	Capacitive multi-touch / Glove, Wet, Stylus
Backlight	LED backlight
Power	User replaceable Battery 3.8V, 6400 mAh
Hot swap	Support
Quick Charging	3.8 hours, Standard battery with charging cradle
Expansion Slot	MicroSD up to 64GB
SIM / SAM	2 Micro SIM / 1 SAM
Interface	1 Micro USB 2.0 Docking Connector (USB 2.0) Rear 10-pin Connector
Notification	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad
Voice and Audio	Dual noise-cancelling microphones; High-quality speaker phone; 3.5mm headset jack
PTT Hot Key	Support

WIRELESS WAN DATA AND VOICE COMMUNICATIONS	
Radio Frequency Band	(Optional) • 4G : LTE • 3G : UMTS/HSDPA/HSUPA/HSPA/HSPA+ • 2G : GSM/GPRS/EDGE
GPS	(for WWAN only) A-GPS, GLONASS, BEIDOU

WIRELESS LAN	
Radio	802.11 a/b/g/n/d/h/i
Data Rates	5GHz: 802.11a/n – up to 150 Mbps; 2.4GHz: 802.11b/g/n – up to 72.2 Mbps
Security and Encryption	WEP (40 or 104 bit) ; WPA/WPA2 Personal (TKIP, and AES); WPA/WPA2 Enterprise (TKIP, and AES) – EAPTTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PE APv0- MSCHAPv2, PE APv1-EAP-GTC, and LEAP

WIRELESS PAN	
Bluetooth	Bluetooth 4.1 BLE , Class 1

WIRED LAN	
Ethernet	Support (w / Ethernet Cradle)

COMMUNICATION AND MESSAGING	
VoIP / PTT	

DATA CAPTURE	
Scanning	1D&2D imager Scan range (Code 39 barcode) – 20 Mil : 2.0 inch to 30.0 inch (5.08 cm to 76.2 cm) – 4 Mil : 3.3 inch to 8.8 inch (8.4 cm to 22.4 cm)
Camera	Rear : 13MP Autofocus with flash Front : 2.0MP Fixed Focus
NFC	(Optional) ISO 14443 Type A & B ISO 15693, MiFare

SENSOR	
Light Sensor	Ambient Light
Motion Sensor	Proximity, Gyroscope, Accelerometer, Magnetic

USER ENVIRONMENT	
Operating Temp	-20°C to 50°C / -4°F to 122°F
Storage Temp	-25°C to 70°C / -13°F to 158°F
Humidity	95% non-condensing
Drop Spec	Multiple 8 ft./2.4 m drop to concrete at room temperature per MIL-STD 810G
Tumble Spec	2,000 3.2ft./1.0 m tumbles; meets and exceeds IEC tumble specifications
Sealing	IP67
Vibration	4 g's PK Sine (5 Hz to 2 kHz); 0.04g2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis
Thermal Shock	-40° C to 70° C rapid transition
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge

* Specification subject to change without notice