

Touch Mobile Computer

EF500

The Proven Innovation of Enterprise Mobility

- **Multi-OS Support**

EF500 supports multiple operating systems, including Android 5.1, Android 6.X and Windows 10 IoT Mobile Enterprise.

- **Durable and Scratch Resistant**

EF500'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 260 grams (9.2oz), EF500 is ergonomically designed for comfortable single-handed operation.

- **1D and 2D Scanning**

The built-in bar code scanner rapidly reads 1-D and 2-D bar codes and it also has a 13 MP camera for taking pictures and capturing signatures.

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

EF500 comes with full voice capabilities; including noise cancelling, speakerphone, and push to talk that enable more efficient communication among employees, whether it is one-to-one or one-to-many.

- **Efficient Power Management**

EF500 uses several power saving technologies to ensure it will run for the entire work shift.



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)	155.6 x 77.9 x 16.5 mm 6.13 x 3.07 x 0.65 in.
Weight	260g(with standard battery) 330g(with extended battery)
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 Standard: 3.8V, 3200 mAh Extended: 3.8V, 6400 mAh
Hot swap	Support
Quick Charging	2.2 hours, Normal battery with charging cradle 3.8 hours, Extended 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
Biometrics	Support (w/ Optical, Capacitive fingerprint accessory)
PAYMENT	
MSR	Support (w/ PayGear® Cover)
Contact	Support (w/ PayGear® Cover)
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 1.2m / 4 ft. to tile over concrete at room temperature EF50x + Optical Fingerprint (iBIO) > 1.2 m to drop per MIL-STD 810G
Tumble Spec	1000 1.6 ft./0.5 m tumbles; meets and exceeds IEC tumble specification
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