

Touch Mobile Computer

# EF400

## Pocket-sized Device Providing Maximum Portability

- **Ergonomic, Small Form Factor**

With a weight of only 200 grams (7oz), EF400 is ergonomically designed for comfortable single-handed operation. The multi-touch display can be operated with fingertips, or gloves, and even works if they are wet. Sun glare protection improves the display's readability in direct sunlight, and the anti-fingerprint coating protects it from smears.

- **Durable and Scratch Resistant**

EF400's compact, lightweight design incorporates Bluebird's proprietary TankSmith™ technology with a 1.8 meter (6ft.) drop specification and an IP67 rating that means it is protected from water, dust, and dirt. The 4-inch, WVGA, multi-touch display made of Corning® Gorilla® Glass 3 is exceptionally resistant to scratches and deep chips.

- **Multi-OS Support**

EF400 supports multiple operating systems, including Android 5.1 Lollipop 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.

- **From Barcodes to NFC**

EF400 has a barcode scanner that rapidly reads 1D and 2D barcodes and it also supports near-field communication (NFC). In addition, EF400 has a 13 MP camera for taking pictures and capturing signatures.

- **Extended Product Life Cycle**

When purchasing a Bluebird product, you can be sure that the product will be supported for several years to come. Unlike suppliers of consumer-grade devices, Bluebird stands behind its products for years, significantly extending the product life cycle and protecting customers' investment in the company's products.



## EF400 Specification

<b>PERFORMANCE CHARACTERISTICS</b>	CPU	1.2 GHz Quad Core Processor
	Operating System	Windows 10 IoT Mobile Enterprise / Android 5.1, 6.X
	Memory	2GB RAM / 16GB Flash
<b>PHYSICAL CHARACTERISTICS</b>	Dimensions (L x W x D)	136.3 x 68 x 15.9 mm
	Weight	200g (with standard battery) / 250g (with extended battery)
	Display	4.0 inch, WVGA (800 X 480), Eyelluminate™ Display
	Imager Window	Corning® Gorilla® Glass 3
	Touchpanel	Capacitive multi-touch / Glove, Wet, Stylus
	Backlight	LED backlight
	Power	Long Lasting Power Battery. User replaceable. Standard: 3.8V 3010 mAh Extended: 3.8V 6020 mAh
	Quick charging	2.2 hours, normal battery with charging cradle 3.8 hours, Extended battery with charging cradle
	Expansion Slot	MicroSD 32GB SDHC, up to 64GB SDXC
	SIM / SAM	1 Micro SIM
	Interface	1 Micro USB 2.0 Docking Connector (USB 2.0)
	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	
<b>WIRELESS WAN DATA AND VOICE COMMUNICATIONS</b>	Radio Frequency Band	(Optional) 4G : LTE 3G : UMTS/HSDPA/HSUPA/HSPA/HSPA+ 2G : GSM/GPRS/EDGE
	GPS	A-GPS, GLONASS, BEIDOU
<b>WIRELESS LAN</b>	Radio	802.11 a/b/g/n/d/h/i
	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, EAP Fast and LEAP
<b>WIRELESS PAN</b>	Bluetooth	Bluetooth 4.0 LE , Class 1
<b>WIRED LAN</b>	Ethernet	Support (w/ Ethernet Cradle)
<b>COMMUNICATION AND MESSAGING</b>		VoIP / PTT
<b>DATA CAPTURE</b>	Scanning	1D&2D imager
	Camera	Rear : 13MP Autofocus with flash Front : 1.3MP Fixed Focus
	NFC	(Optional)ISO 14443 Type A & BISO 15693, MiFare
<b>SENSOR</b>	Light Sensor	Ambient Light
	Motion Sensor	Proximity, Gyroscope, Accelerometer, Magnetic
<b>USER ENVIRONMENT</b>	TankSmith™ Technology	All Bluebird products are built on Bluebird's TankSmith™ technology
	Operating Temp.	-10°C to 50°C / -2°F to 122°F
	Storage Temp.	-40°C to 70°C / -40°F to 158°F
	Humidity	95% non-condensing
	Drop Spec.	1.8m / 6 ft. to concrete at room temp; meets and exceeds MIL-STD 810G
	Tumble Spec.	1000 1.6 ft./0.5 m tumbles; meets and exceeds IEC tumble specification
	Sealing	TankSmith™ 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
<b>ACCESSORY</b>	In-box	Battery, Battery Cover, Micro USB cable

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