

# **Ultimate Rugged Mobile Touch Computer EF550R**

# **Ultimate Performance & Rugged Enterprise Mobile Computer**

EF550R offers the larger display of 5.45" with enhanced innovative fe atures and form factor that provide more huge value and productivity to enterprise frontline user environment. With the enhanced barcode scan engine and various features of the upgraded BOS™ solutions of integrated device management, EF550R is the device designed to ma ximize work efficiency. Experience the ultimate rugged and performa nce of the EF550R, a product of Bluebird's all cutting edge technolog y optimized for enterprise environment.





Android 10; Upgradeable to



Sealing



**Performance** Octa-Core Processor

**Operation Temp** 

-20°C to 50°C



Wireless Wifi.Bluetooth

Camera

13MP Autofocus



**Battery** User Replaceable, Smart Battery



Enhanced





**Display** 5.45" HD+ (1440x720)



Multiple 8 ft./2.4 m drop to

concrete at room temperature per MIL-STD 810G

## **Key Features**

### **Ultimate Performance**

With adopting Qualcomm Snapdragon® the best CPU for enterprise and Android 10; upgradeable to Android 14, EF550R makes workers do business faster and more securely, enhancing work efficiency. Users can quickly switch application screens thanks to the new Universal Flash Storage (UFS).

#### Faster, Wider BUT Less Power

EF550R has 2x2 Multiple-User Multiple Input Multiple Output(MU-MIMO) technology that makes possible for multiple devices communicate with access simultaneously through pinpoint beamforming, which leads to enhancement in Wi-Fi network speed, range, and capacity. And access point is the one who processes not the device, increasing device battery cycletime.

### Ultimate Rugged & Durability

Through Bluebird TankSmith® technology, EF550R is designed for the enterprise with the highest-in-class drop spec of 8ft.(2.4m) and sealing up to IP68 to provide the ultimate durability and usability allowing use in environments exposed to water, humidity, or dust.

#### The Largest Display

The largest-in-class 5.45-inch display provides more quality information to the device users and at the same time, it enhances working condition with the best-in-class outdoor readability for users to read the screen even in bright sunlight.

#### Power every minute of every workday

The standard battery provides power for a full shift. For longer shifts, an extended battery is available. (Standard battery: 16.7 hours, Extended battery: 23.7 hours)

#### **Enhanced Data Capture**

With the enhanced barcode module, high speed barcode scanning is available and even readable for damaged or contaminated barcode labels, supporting proximity scan and extended range scan to make it easy work.

### **Business Optimized Solution**

BOS™ Bluebird (Business Optimizing Solutions) provides various features optimized for use of enterprise device from app development, device deployment, to business performance managem ent as an integrated solution system. With BOS ™ you can implement integrated management for EF550R in an efficient way.

#### **Industry & Applications**

#### Retail - Store associates

- Price/Inventory checks and audits
- Inventory management
- BOPIS (Buy online, Pick up instore)
- Loyalty management
- Assisted selling
- Voice communication
- Electronic coupons
- Store transfers - Gift registrylookup

#### Retail - Store managers

- Workforce management
- Planogram management
- Promotion compliance - Merchandising

#### **Field Service Technicians**

- Asset management / Invoicing

- Proof of Delivery / Last miledelivery

#### - Patient management, Staff communication

- Manufacturing - Order/Return processing
- Inventory management / Work order management

Healthcare

Order taking

#### Government/Public Safety

- ID validation/Ticketing

#### BOS™ Solutions & Software

BOS™ Provisioning; Staging; Kiosk; Virtual Key; BOS™ Keyboard

- BOS™ VoIP
- BOS™ PTT. PTTEssential
- BOS™ Wi-Fine™ (WiFianalyze application)
- BOS™EMM
- BOS™OTA
- BOS™ OemConfig

#### 3'rd Party Solutions Integration

- EMM: Airwatch, MobileIron, Mobicontrol, IBM Mass360 XenMobile
- PTT: ESChat, Zello, IMPTT, EveryTalk, AirPTT





### **Specifications**

PERFORMANCE	CHARACTERISTICS	WIRELESS WA	N DATA AND VOICE COMMUNICATIONS
CPU Operating System	Qualcomm Snapdragon 660 octa-core, 2.2GHz Qualcomm Snapdragon 660 octa-core, 2.45 GHz Android 10; Upgradeable to Android 14		(Optional) Worldwide - 4G: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B2 - 3G: B1/B2/B4/B5/B8/B9/B19
Memory	4GB RAM / 32GB UFS Flash 4GB RAM / 64 or 128GB Flash (Optional)		South Korea(SKT) - 4G : B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/
		Radio	- 3G : B1/B2/B4/B5/B8/B9/B19
PHYSICAL CHAR	ACTERISTICS	Frequency Band	North America (AT&T, Verizon, T-Mobile)
	Rugged SKU 1 : 166.45 x 85.79 x 23.06 mm		- 4G : B2/B4/B5/B12/B13/B14/B66/B71 - 3G : B2/B4/B5
Dimensions (L x W x D)	*Notes:  1) Rugged SKU 1: Rugged Bumper encompasses the entire device		China - 4G: B1/B3/B5/B8/B38/B39/B40/B41 - 3G: B1/B8 - 2G: B3/B8
Weight	332 g	0.00	(WWAN SKU only) Autonomous, Concurrent GPS;
Display	5.45" HD+ (1440 x 720), TFT-IPS	GPS	GLONASS; Galileo; BeiDou, and A-GPS
Imager Window	Corning® Gorilla® Glass	WIRELESSLAN	
Touchpanel	Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately);  Fingerprint resistant antismudge coating water droplet rejection	Radio	WiFi: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; Wi-Fi™ certified; IPv4, IPv6, 2x2 MU-MIMO
Backlight	LED backlight		WWAN: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w
Daomgri	Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery		Wi-Fi™ certified; IPv4, IPv6, 5GHz 2x2 MU-MIMO
Power	management Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery: 3.85V / 6160 mAh, 23.7 Watt hours	Data Rates	5GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4GHz: 802.11b/g/n — up to 300 Mbps WEP (40 or 104 bit);
	BOS™ PowerManager Station		WPA/WPA2 Personal (TKIP and AES);
Hot swap	Supported		WPA/WPA2 Enterprise (TKIP and AES)
Expansion Slot	User accessible MicroSD 32GB SDHC and up to 512GB SDXC	Security and Encryption	— EAP-TTLS (PAP, MSCHAP, MSCHAPv2 EAP-TLS, PEAPv0-MSCHAPv2,
SIM / SAM	(WWAN SKU Only) Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM/1 Micro SD)	<u> Епогурног</u>	Data in Motion : FIPS 140-2 Level 1
	<ul> <li>- 1 Nano SIM is supported by micro SD Card Slot</li> <li>2 SAM (Optional)</li> </ul>	WIDEL EGG TA	Data at Rest : FIPS 140-2 Level 1
	USB Type C Connector (USB 2.0)	WIRELESS PAN	
Interface	Docking Connector (Charging) Rear	Bluetooth WIRED LAN	Bluetooth v5.0, BLE Class 2
	10-pin Connector	Ethernet	Support (w/ Ethernet Cradle)
Notification	Audible tone; multi-color LEDs; vibration  On-screen keypad and BOS™ Keyboard		Capport (III, Zaioniot Cidalo)
Keypad	power button; Volume up/down buttons Home, Back, Menu		
	Dual-action side scan triggers		
	Dual noise-cancelling microphones;		
	Vibrate alert;		
	High-quality speaker phone;		
Voice and Audio	3.5mm headset jack		
	PTT headset support;		
	Bluetooth wireless headset support, SWB & FB audio		
	Support		

<sup>\*</sup> Android version is subject to change depending upon Qualcomm's roadmap.

PTT Hot Key

- Available dual-action side scan triggers

<sup>\*</sup> Please be informed that Bluebird warranty program should be purchased to get Android upgrade service.



## **Specifications (Continued)**

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) Digimarc support			
Camera	Rear – 13 MP autofocus; f/2.0 aperture; flash LED, PDAF; supports Torch mode Front – 5 MP fixed f/2.0 aperture			
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; P2P mode and Card Emulation via Host. and UICC			
SENSOR				
Light Sensor	Ambient Light Automatically adjusts display backlight brightness			
Other Sensors	Proximity, eCompass, accelerometer. Gyroscope, Pressure			
USER ENVIRONMENT				
Operating Temp	-20°C to 50°C / -4°F to 122°F			
Storage Temp	-40°C to +70°C / -40°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  Multiple 6 ft./1.8 m drop to concrete across full operating temperature range			
Tumble Spec	2000 3.2 ft./1.0 m tumbles; meets or exceeds IEC tumble specification			
Sealing	IP68 and IP65 per applicable IEC sealing specifications			
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 / -40° F to 158° F rapid transition			
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge			

SOFTWARE SOLU TIONS				
BOS™	BOS™ - Provisioning; - Staging; - Kiosk; - Virtual Key; - BOS™ Keyboard; - VoIP; PTT; PTT Essential - EMM; - Wi-Fine (WIFI analyze application) - Secure ID (Secure Management solution)			
3'rd Party Solutions Integration	EMM : Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT			
ACCESSORIES				
Accessories	1 or 4 slot charging cradle (Includes a bay for Spare Battery Charging.) 1 or 4 slot ethernet cradle (Includes a bay for Spare Battery Charging.) 4~6 slot Battery Charger Handstrap & Stylus Holder / Stylus Soft Holder Protective Flim			

<sup>\*</sup> Specifications are subject to change upon manufacturer's condition.

UHF RFID Reader Sled (w/ RFR90x)

Trigger Handle