

Ultimate Rugged Mobile Touch Computer

EF550R

Ultimate Performance & Rugged Enterprise Mobile Computer

EF550R offers the larger display of 5.45" with enhanced innovative features 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 maximize work efficiency. Experience the ultimate rugged and performance of the EF550R, a product of Bluebird's all cutting edge technology optimized for enterprise environment.



Industry & Applications

Retail – Store associates

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

Retail – Store managers

- Workforce management
- Planogram management
- Promotion compliance
- Merchandising

Field Service Technicians

- Asset management / Invoicing

T&L

- Proof of Delivery / Last mile delivery

Healthcare

- Patient management, Staff communication

Manufacturing

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

Hospitality

- Order taking

Government/Public Safety

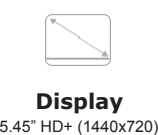
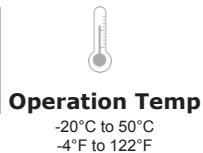
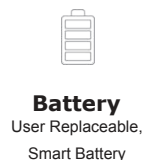
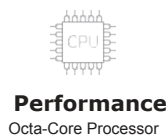
- ID validation/Ticketing

BOS™ Solutions & Software

- BOS™ Provisioning; Staging; Kiosk; Virtual Key; Enterprise Keyboard
- BOS™ VoIP
- BOS™ PTT, PTT Essential
- BOS™ Wi-Fine™ (WiFi analyze application)
- BOS™ EMM
- BOS™ OTA
- BOS™ OemConfig

3rd Party Solutions Integration

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



• 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 points 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 cycle time

Ultimate Rugged & Durability

Through Bluebird TankSmith® technology, EF550R is designed for the enterprise with the highest-in-class drop spec of 8 ft. (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 :14 hours, Extended battery :19.8 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

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 EF550R in an efficient way.

Specifications

PERFORMANCE CHARACTERISTICS		WIRELESS WAN DATA AND VOICE COMMUNICATIONS	
CPU	Qualcomm Snapdragon 660 octa-core, 2.2GHz	Radio Frequency Band	- LTE : 1(2100), 2(1900), 3/9(1800), 4(1700/2100), 5/26/18/19(850), 7(2600), 8(900), 20(800), 28(700) - WCDMA : B1, B2, B4, B5, B8, B9, B19
Operating System	Android 10; Upgradeable to Android 14	GPS	(WWAN SKU only) Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS
Memory	4GB RAM / 32GB UFS Flash 4GB RAM / 64 or 128GB UFS Flash (Optional)		
PHYSICAL CHARACTERISTICS		WIRELESS LAN	
Dimensions (L x W x D)	164.91 x 85.79 (Grip : 77.6) x 23.06 mm	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
Weight	332g		WWAN: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; Wi-Fi™ certified; IPv4, IPv6, 5GHz 2x2 MU-MIMO
Display	5.45" HD+ (1440 x 720), TFT-IPS	Data Rates	5GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4GHz: 802.11b/g/n — up to 300 Mbps
Imager Window	Corning® Gorilla® Glass 5	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
Touchpanel	Multi-mode capacitive touch with bare or gloved fingertip input or conductive stylus (sold separately), Corning Gorilla Glass; water droplet rejection; fingerprint resistant anti-smudge coating		Data in Motion : FIPS 140-2 Level 1 Data at Rest : FIPS 140-2 Level 1
Backlight	LED backlight		
Power	User Replaceable Standard Battery, Li-Polymer 3.85V / 4350 mAh, 16.7Wh User Replaceable Extended Battery, Li-Polymer 3.85V / 6160 mAh, 23.71Wh BOS™ PowerManager Station		
Hot swap	Support		
Quick charging	Fast charging		
Expansion Slot	MicroSD 32GB SDHC, up to 512GB SDXC		
SIM / SAM	(WWAN SKU Only) Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM/1 Micro SD) - 2'nd Nano SIM is supported by micro SD Card Slot' 2 SAM (Optional)		
	USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector		
Interface			
Notification	Audible tone; multi-color LEDs; vibration		
Keypad	On-screen keypad and Enterprise Keyboard power button; Volume up/down buttons Home, Back, Menu; Dual-action side scan triggers		
Voice and Audio	Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; 3.5mm headset jack PTT headset support; Bluetooth wireless headset support, SWB & FB audio		
PTT Hot Key	Support - Available dual-action side scan triggers		
		WIRELESS PAN	
		Bluetooth	Bluetooth v5.0, BLE Class 2
		WIRED LAN	
		Ethernet	Support (w/ Ethernet Cradle)

* Android version is subject to change depending upon Qualcomm's roadmap.

* Please be informed that Bluebird warranty program should be purchased to get Android upgrade service.

Specifications (Continued)

COMMUNICATION AND MESSAGING		SOFTWARE SOLUTIONS		
VoIP / PTT		BOS™	BOS™	
DATA CAPTURE			-Provisioning; -Staging; -Kiosk; -Virtual Key; -Enterprise Keyboard; -VoIP ; PTT ; PTT Express -EMM; -Wi-Fine (WIFI analyze application) -Secure ID (Secure management solution)	
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		3 rd Party Solutions Integration	EMM : Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT
Camera	Rear – 13 MP autofocus; f/2.0 aperture; flash LED, PDAF; supports Torch mode Front – 5 MP fixed f/2.0 aperture ISO 14443 Type A and B; FeliCa			
NFC	and ISO 15693 cards; P2P mode and Card Emulation via Host. Card Emulation via Host and UICC	ACCESSORIES		
SENSOR		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 Film Trigger Handle UHF RFID Reader Sled (w/ RFR90x)	
Light Sensor	Ambient Light Automatically adjusts display backlight brightness			
Motion Sensor	Proximity, eCompass , accelerometer. Gyroscope, Pressure			
USER ENVIRONMENT				
Operating Temp	-20°C to 50°C / -4°F to 122°F	* Specifications are subject to change upon manufacturer's condition.		
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			
Tumble Spec	2000 3.2 ft./1.0 m tumbles; meets or exceeds IEC tumble specifications			
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			