

Ultimate Rugged Mobile Touch Computer

EF550R

Ultimate Performance & Rugged Enterprise Mobile Computer

EF550R offers the larger display of 5.5" 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 1D & 2D imager



Display

5.5" HD+ (1440x720)

Drop Resistance 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 cycle time.

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 5.5-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 Watt hours, Extended battery: 23.7 Watt 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

(Business BOS™ Bluehird 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

Healthcare

- Proof of Delivery / Last miledelivery

- 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; 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	AN DATA AND VOICE COMMUNIC	
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/B - 3G: B1/B2/B4/B5/B8/B9/B19	
Memory	4GB RAM / 32GB UFS Flash		South Korea(SKT) - 4G: B1/B2/B3/B4/B5/B7/B8/N - 3G: B1/B2/B4/B5/B8/B9/B19	
PHYSICAL CHAR	ACTERISTICS	Frequency		
Dimensions (L x W x D)	Rugged SKU 1: 166.45 x 85.79 x 23.06 mm Rugged SKU 2: 166.35 X 83.5 X 22.8 *Notes: 1) Rugged SKU 1: Rugged Bumper encompasses the entire device 2) Rugged SKU 2: Rugged Bumper is located on the top and bottom	Band	North America (AT&T, Verizon - 4G : B2/B4/B5/B12/B13/B14/ - 3G : B2/B4/B5 China - 4G : B1/B3/B5/B8/B38/B39/B - 3G : B1/B8 - 2G : B3/B8	
Weight	332 g	CDC	(WWAN SKU only) Autonomous, Concurrent GPS;	
Display	5.5" HD+ (1440 x 720), TFT-IPS	GPS	GLONASS; Galileo; BeiDou, and	
Imager Window	Corning® Gorilla® Glass	WIRELESSLA	N	
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 802.11a/b/g/n/ac/ Wi-Fi™ certified; IPv4, IPv6, 2x2 MU-MIMO	
Backlight	LED backlight		WWAN: IEEE 802.11a/b/g/n/	
Power	Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours	Data Rates	Wi-Fi [™] certified; IPv4, IPv6, 5GHz 2x2 MU-MII 5GHz: 802.11a/n/ac — up to 2.4GHz: 802.11b/g/n — up to	
Hot swap	Extended Battery: 3.85V / 6160 mAh, 23.7 Watt hours BOS™ PowerManager Station Supported		WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP a WPA/WPA2 Enterprise (TKIP — EAP-TTLS (PAP, MSCHAF	
Expansion Slot SIM / SAM	User accessible MicroSD 32GB SDHC and up to 512GB SDXC (WWAN SKU Only) Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM/1 MicroSD) - 1 Nano SIM is supported by micro SD Card Slot	Security and Encryption	EAP-TLS, PEAPv0-MSCHAP PEAPv1-EAP-GTC and LEAF Data in Motion : FIPS 140-2 Le	
	2 SAM (Optional)	MUDEL ECO DA	Data at Rest : FIPS 140-2 Lev	
	USB Type C Connector (USB 2.0)	Bluetooth	Bluetooth v5.0, BLE Class 2	
Interface	Docking Connector (Charging) Rear	WIREDLAN	Didetooti1 V3.0, BLE Glass 2	
	10-pin Connector	Ethernet	Support (w/ Ethernet Cradle)	
Notification	Audible tone; multi-color LEDs; vibration			
	On-screen keypad and BOS™ Keyboard			
Keypad	power button; Volume up/down buttons Home, Back, Menu			
Voice and Audio	Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; 3.5mm headset jack PTT headset support; Bluetooth wireless headset support, SWB & FB audio			

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PTT Hot Key

- Available dual-action side scan triggers

WIRELESS WAN DATA AND VOICE COMMUNICATIONS			
	(Optional) Worldwide - 4G: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B26/B28 - 3G: B1/B2/B4/B5/B8/B9/B19		
Radio Frequency	South Korea(SKT) - 4G: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B26/B28 - 3G: B1/B2/B4/B5/B8/B9/B19		
Band	North America (AT&T, Verizon, T-Mobile) - 4G : B2/B4/B5/B12/B13/B14/B66/B71 - 3G : B2/B4/B5		
	China - 4G: B1/B3/B5/B8/B38/B39/B40/B41 - 3G: B1/B8 - 2G: B3/B8		
GPS	(WWAN SKU only) Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS		
WIRELESSLAN			
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 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		
Data Rates	5GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4GHz: 802.11b/g/n — up to 300 Mbps		
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 Data in Motion: FIPS 140-2 Level 1 Data at Rest: FIPS 140-2 Level 1		
WIRELESS PAN	2 200 200 200 200 200 200 200 200 200 2		
Bluetooth WIRED LAN	Bluetooth v5.0, BLE Class 2		

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



Specifications (Continued)

COMMUNICATION AND MESSAGING					
VoIP / PTT	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 ENVIRONME	SER 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		

^{*} Specifications are subject to change upon manufacturer's condition.

UHF RFID Reader Sled (w/ RFR90x)

Trigger Handle