

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.







Android 10; Upgradeable to Android 14



Sealing IP68 & IP65



Performance Octa-Core Processor

Operation Temp

-20°C to 50°C

-4°F to 122°F



Wifi. Bluetooth

Camera

13MP Autofocus

with flash



Battery

Smart Battery



User Replaceable



Display 5.45" HD+ (1440x720)



Drop Resistance

Scanning

Enhanced

1D & 2D image

Multiple 8 ft./2.4m 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 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

Últimate 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.

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

Proof of Delivery / Last mile delivery

Healthcare

- Patient management, Staff communication

Manufacturing

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

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

3'rd Party Solutions Integration

IBM Mass360, XenMobile

- PTT: ESChat, Zello, IMPTT, EveryTalk, AirPTT





Specifications

PERFORMANCE CHARACTERISTICS		WIRELESS WAN DATA AND VOICE COMMUNICATIONS	
CPU Operating System	Qualcomm Snapdragon 660 octa-core, 2.2GHz Android 10; Upgradeable to Android 14	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
Memory	4GB RAM / 32GB UFS Flash 4GB RAM / 64 or 128GB UFS Flash (Optional)	GPS	(WWAN SKU only) Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS
PHYSICAL CHAR	ACTERISTICS	WIRELESS LAN	
Dimensions (L x W x D)	164.91 x 85.79 (Grip : 77.6) x 23.06 mm		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;
Weight	332g		
Display	5.45" HD+ (1440 x 720), TFT-IPS	Radio	
Imager Window	Corning® Gorilla® Glass 5		
	Multi-mode capacitive touch with bare		IPv4, IPv6, 5GHz 2x2 MU-MIMO
Touchpanel	or gloved fingertip input or conductive stylus (sold separately), Corning Gorilla Glass; water droplet rejection; fingerprint resistant anti-smudge coating	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);
Backlight	LED backlight		WPA/WPA2 Personal (TKIP and AES);
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	Security and Encryption	WPAWPA2 Enterprise (TKIP and AES) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP.EAP-PWD
Hot swap	Support		Data in Motion : FIPS 140-2 Level 1
Quick charging	Fast charging	WIDEL FOO DAN	Data at Rest : FIPS 140-2 Level 1
Expansion Slot	MicroSD 32GB SDHC, up to 512GB SDXC	WIRELESS PAN	
	(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)	Bluetooth WIRED LAN	Bluetooth v5.0, BLE Class 2
OINA / OANA		Ethernet	Support (w/ Ethernet Cradle)
SIM / SAM			eapport (w. Zulolilot Gradie)
Interface	USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector		
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		

^{*} 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 SOLU	TIONS
VoIP / PTT			BOS™
DATA CAPTURE			-Provisioning;
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	BOS™	ns XenMobile
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 and ISO 15693 cards;	3'rd Party Solutions Integration	
NFC	P2P mode and Card Emulation via Host. Card	ACCESSORIES	
	Emulation via Host and UICC	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
SENSOR Light Sensor	Ambient Light Automatically adjusts display backlight brightness		
Motion Sensor	Proximity, eCompass , accelerometer. Gyroscope, Pressure		
USER ENVIRONMENT			Trigger Handle UHF RFID Reader Sled (w/ RFR90x)
Operating Temp	-20°C to 50°C / -4°F to 122°F	OTIL KLID Keader Sied (w/ KLIK90X)	
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	* Specifications are subject to change upon manufacturer's condition.	
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		