

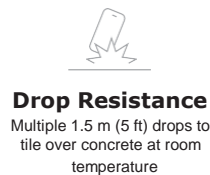
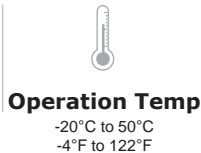
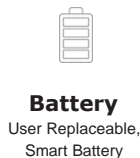
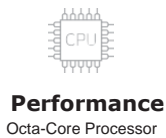
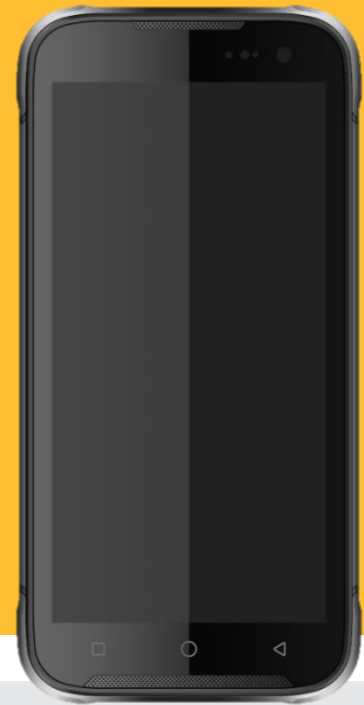
# Enterprise Full Touch Mobile Computer

# EF550

## The Ultimate Performance For Enterprise Mobility

Building on the success of Bluebird EF50x series, the all-new EF550 offers the larger display of 5.5" with enhanced innovative features and form factor that provide more huge value to enterprise productivity and user environment. The various features of the upgraded BOS™ solutions boost ease of use in device management as another level in order to maximize work efficiency.

Enjoy the EF550, a product of Bluebird's all cutting edge technology for the ultimate enterprise mobility performance.



## Key Features

### Ultimate Performance

With adopting Qualcomm Snapdragon®, the best CPU for enterprise and Android 10, EF550 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

EF550 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, EF550 is designed for the enterprise with the highest-in-class drop spec of 5 ft. (1.5m) 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.

### No worry, It's All-Day Battery

No need to worry about recharging while working! EF550 battery offers 14-hour power in serial use. Safe as it is a hard-pack and stable battery operation with support of BOS™ PowerManager. Hot Swap mode is available without running any application, ensuring task continuity without turning off the device or an application. You can minimize loss of data due to discharge..

### 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 EF550 in an efficient way.

### Industry & Applications

#### Retail – Store associates

- Price/Inventory checks
- 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

#### Healthcare

- Patient management, Staff communication

#### 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

### 3<sup>rd</sup> Party Solutions Integration

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

# Specification

## PERFORMANCE CHARACTERISTICS

CPU	2.2 GHz Octa Core Processor (SD660)
Operating System	Android 10.x - Support next version of Android R - Upgrading to new supported versions of Android requires the purchase of a Bluebird Care™ Service contract
Memory	<b>4GB RAM / 32GB Flash (UFS)</b>

## PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	160.6 x 79 x 16.35 mm (6.3 x 3.1 x 0.64")
Weight	290 g
Display	5.45" HD+ (1440 x 720), TFT-IPS
Imager Window	<b>Corning® Gorilla® Glass 5</b>
Touchpanel	Capacitive multi-touch / Stylus Glove, Wet
Max Brightness	600 nit
Backlight	LED backlight
Power	User Replaceable Battery (Hard Pack) <b>3.85V / 4350 mAh</b> , Smart Battery BOS™ PowerManager support
Hot swap	Hot Swap Mode
Expansion Slot	MicroSD 32GB SDHC, up to 512GB SDXC
SIM / SAM	Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM/1 Micro SD) - 1 Nano SIM is supported by micro SD Card Slot 2 SAM (Optional)
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

## WIRELESS WAN DATA AND VOICE COMMUNICATIONS

Radio Frequency Band	(Optional) EMEA, Korea, Thailand, India - LTE FDD: B1/B3/B5/B7/B8/B20 - LTE TDD: B38/B40/B41 - WCDMA: B1/B5/B8 - GSM/EDGE : B3/B8 Latin America, Australia, ANZ, Taiwan - LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 - LTE TDD: B40 - WCDMA: B1/B2/B5/B8 - GSM/EDGE : B2/B3/B5/B8 Japan - LTE FDD: B1/B3/B8/B18/B19/B26 - LTE TDD: B41 - WCDMA: B1/B6/B8/B19 North America - LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 - WCDMA: B2/B4/B5 China - LTE FDD: B1/B3/B5/B8 - LTE TDD: B38/ B39/ B40/ B41 - WCDMA: B1/ B8 - GSM/EDGE : B3/ B8
GPS	(for WWAN only) Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS.

## WIRELESS LAN

Radio	WiFi: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; <b>Wi-Fi™ certified;</b> <b>IPv4, IPv6, 2x2 MU-MIMO</b>
Data Rates	WWAN: IEEE 802.11 a/b/g/n/ac /d/h/i/r/k/v/w; <b>Wi-Fi™ certified;</b> <b>IPv4, IPv6, 5GHz 2x2 MU-MIMO</b> 5GHz: 802.11a/n/ac — up to 866.7Mbps 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

## WIRELESS PAN

Bluetooth	<b>Bluetooth v5.0, BLE Class 2</b>
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## WIRED LAN

Ethernet	Support (w/ EthernetCradle)
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\* 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..

# Specification (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 <b>Front – 5 MP fixed focus 2.0</b>
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; P2P mode and Card Emulation via Host. Card Emulation via Host and UICC

## SENSOR

Light Sensor	Ambient Light Automatically adjusts display backlight brightness
Motion Sensor	Proximity, eCompass , accelerometer. Gyroscope, Pressure(WWAN SKU Only)

## USER ENVIRONMENT

Operating Temp	-20°C to 50°C / -4°F to 122°F
Storage Temp	-40°C to +70°C / -22°F to +158°F
Humidity	95% non-condensing
Drop Spec	<b>Multiple 5 ft./1.5 m to tile over concrete over -10°C to 50°C (14°F to 122°F)</b>  Multiple 6 ft./1.8 m drops to concrete with the rugged boot accessory per MIL STD 810 G
Tumble Spec	1000 1.6 ft./0.5 m tumbles, meets or exceeds IEC tumble specification
Sealing	<b>IP68 and IP65 per applicable IEC sealing specifications</b>
Vibration	4 g's PK Sine (5 Hz to 2 kHz); 0.04g <sup>2</sup> /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

## SW SOLUTION

BOS™	BOS™ - Provisioning; - Staging; - Kiosk; - Virtual Key; - Enterprise Keyboard; - VoIP ; PTT ; PTT Express - EMM; - Wi-Fine (WIFI analyze application) - Secure ID (Secure management solution)
3 <sup>rd</sup> Party Solutions Integration	EMM : Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT

## ACCESSORIES

Accessories	1 or 4 Slot Charging cradle, 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) ----- TBD Optical Fingerprint Physical Keypad Loud Speaker
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\* Specifications are subject to change upon manufacturer's condition.