**BLUEBIRD**

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.

OS	**Performance**	**Wireless**	**Battery**	**Scanning**
Android 10; up gradeableto A ndroid 14	Octa-Core Processor	Wifi, Bluetooth	User Replaceable, Smart Battery	1D & 2D imager

Sealing	**Operation Temp**	**Camera**	**Display**	**Drop Resistance**
IP68&IP65	-20°C to 50°C -4°F to 122°F	13MP Autofocus with flash	5.5" HD+ (1440x720)	Multiple 5 ft./1.5 m drop to tile over concrete over -10°C to 50°C (14°F to 122°F)

Key Features

Ultimate Performance

With adopting Qualcomm Snapdragon® the best CPU for enterprise and Android 10; upgradeable to Android 14 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 5ft.(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 16.7 Watt hours power in serial use. Safe as it is a hard-pack and stable battery operation with support of BOS™ Power Manager. 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/Inventorychecks
- Inventorymanagement
- BOPIS (Buy online, Pick up in store)
- Loyalty management
- Assisted selling
- Voice communication
- Electronic coupons
- Store transfers
- Gift registry lookup

Retail – Store managers
- Workforcemanagement
- 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; BOS™ Keyboard
- BOS™ VoIP
- BOS™ PTT, PTT Essential
- 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

Bluebird Inc.

WiFi CERTIFIED **WiFi ALLIANCE**

Specifications

PERFORMANCE CHARACTERISTICS

CPU	Qualcomm Snapdragon 660 octa-core, 2.2GHz Qualcomm Snapdragon 660 octa-core, 2.45 GHz
Operating System	Android 10; Upgradeable to Android 14
Memory	4GB RAM / 32GB UFS Flash 4GB RAM / 64 or 128GB Flash (Optional)

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	159.9 x 79 x 16.65 mm
Weight	284.5 g
Display	5.5" HD+ (1440 x 720), TFT-IPS
Imager Window	Corning® Gorilla® Glass
Touchpanel	Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately); Fingerprint resistant antismudge coating water droplet rejection
Backlight	LED backlight
Power	Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Standard capacity : 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery : 3.85V / 6160 mAh, 23.7 Watt hours BOS™ PowerManager Station
Hot swap	Supported
Expansion Slot	User accessible MicroSD 32GB SDHC and up to 512GB SDXC
SIM / SAM	(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 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 BOS™ 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
Dimensions (L x W x D)	159.9 x 79 x 16.65 mm

WIRELESS WAN DATA AND VOICE COMMUNICATIONS

Radio Frequency Band	(Optional) Worldwide - 4G : B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B26/B28 - 3G : B1/B2/B4/B5/B8/B9/B19 South Korea(SKT) - 4G : B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B26/B28 - 3G : B1/B2/B4/B5/B8/B9/B19 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

WIRELESS LAN

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

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	
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 5 ft./1.5 m drop to tile over concrete over -10°C to 50°C (14°F to 122°F)
Tumble Spec	1000 1.6 ft./0.5 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 SOLUTIONS

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 Trigger Handle UHF RFID Reader Sled (w/ RFR90x)

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