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 touch surface 5.85" 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.x	Octa-Core Processor	Wifi, Bluetooth	User Replaceable, Smart Battery	1D & 2D imager

Sealing	**Operation Temp**	**Camera**	**Display**	**Drop Resistance**
IP68	-20°C to 50°C -4°F to 122°F	Autofocus with flash	HD+ (1440x720)	1.82 m (6 ft) MIL-STD-810G compliant

• 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 6ft. (1.82m) 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 5.85" touch surface 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 13 hours power during internet browsing. 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'rd Party Solutions Integration

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

WiFi CERTIFIED WiFi ALLIANCE

Specification

PERFORMANCE CHARACTERISTICS

CPU	2.2 GHz Octa Core Processor (SDM660)
Operating System	Android 10 with GMS - Upgradeable through Android 12 - Support for future Android OS releases past A12 are subject to Qualcomm validation* - Upgrading to new supported versions of Android requires the purchase of a Bluebird Care™ Service contract**
Memory	4GB RAM / 32GB Flash (UFS) 4GB RAM / 64GB Flash (UFS)

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	6.29 in. x 3.11 in. x 0.65 in. 159.9 mm x 79 mm x 16.6mm
Weight	200 g
Display	Whole touch surface 5.85" (with navigation button) 5.45" HD+ (1440 x 720), TFT-IPS
Imager Window	Corning® Gorilla® Glass 3
Touchpanel	Dual mode capacitive touch with stylus, finger or gloved fingertip input (conductive stylus sold separately); Screen protector and Rain modes;
Max Brightness	600 nit
Backlight	LED backlight Automatically adjusts display backlight brightness
Power	User Replaceable Battery (Hard Pack); 3.85V / 4350 mAh; 13 hours internet browsing time; BOS™ Power manager support, preventing downtime through battery life management and battery status. Weight 84,5g***
Hot swap	Hot Swap Mode (Optional)
Expansion Slot	MicroSD up to 512GB SDXC
SIM / SAM	1 Nano SIM + 1 Micro SD card 2 Nano SIM (optional) 2 SAM(optional)
Interface	USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector (Optional)
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 Programmable key
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	Worldwide : - LTE FDD: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20B28/B26 - WCDMA: B1/B2/B4/B5/B8/B9/B19 LTE Cat 13 (DL-400Mbps/UL-150Mbps) North America : - LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 - WCDMA: B2/B4/B5 EMEA : - LTE FDD: B3/B7/B20 - WCDMA: B1/B8 - GSM/EDGE : B3/B8 LTE Cat 4 (DL-150Mbps/UL-50Mbps)
GPS	Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS

WIRELESS LAN

Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; 2.4Ghz + 5Ghz VHT80 IPv4, IPv6, 1x1 SISO 5GHz 2x2 MU-MIMO (Optional) Wi-Fi™ certified; Wi-Fi™ Direct Supported
Data Rates	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	Bluetooth v5.0, BLE Class 2

CERTIFICATION

Certification	CE RED/LVD/EMC FCC KC

* 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.
*** Battery weight is not included in device weight.

Specification (Continued)

COMMUNICATION AND MESSAGING

VoIP / PTT	

DATA CAPTURE

Scanning	Zebra 1D&2D imager - 1D : Interleaved 2 of 5, Code 39, Code 128, Interleaved 2 of 5 to 20 characters - 2D : Datamatrix, MaxiCode, QRCode, PDF417 - Postal code

Camera	Rear – 13 MP autofocus with flash LED;
	      48 MP autofocus with flash LED; (Optional)
	      support Torch mode
	Front – 5 MP fixed focus

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

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	6 ft./1.82m MIL-STD-810G
Tumble Spec	1000 1.6 ft./0.5 m tumbles, meets or exceeds IEC tumble specification
Sealing	IP68
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

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'rd Party Solutions Integration	EMM : Airwatch, MobileIron,
	      Mobicontrol, Mass360,
	      XenMobile
	PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT

ACCESSORIES

Accessories	1 / 4 Slot Charging cradle 1 / 4 Slot Data Communication cradle 5 Slot Charging cradle (Includes a toaster for Spare Battery Charging) 6 Slot Battery Charger Protect case & Shoulder strap (includes Stylus holder & two rings for Shoulder strap) Stylus & Stylus string Wall charger & USB cable Earphone/Memory Card Hand Support & Belt Support Wrist Support Vehicle Magnetic Holder CLA (Cigarette Lighter Adapter) & USB Cable

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

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