



Enterprise Full Touch Mobile Computer

EF551

The Ultimate Performance for Enterprise Mobility

Building on the success of Bluebird EF50x series, the all-new EF551 offers the larger display of 5.45" 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 EF551, a product of Bluebird's all cutting edge technology for the ultimate enterprise mobility performance. It is also the first device in Korea to support 5G mobile communication specialized network(ea eum 5G).



 OS Android 12; upgradeable to Android 15	 Performance Octa-Core Processor	 Wireless Wifi, Bluetooth	 Battery User Replaceable, Smart Battery	 Scanning 1D & 2D imager
 Sealing IP68 & IP65	 Operation Temp -20°C to 50°C -4°F to 122°F	 Camera 13MP Autofocus with flash	 Display 5.45" FHD+ (2160x1080)	 Drop Resistance Multiple 1.5 m (5 ft.) drops to tile over concrete at room temperature

Key Features

Ultimate Performance

With adopting Qualcomm Snapdragon®, the best CPU for enterprise and Android 12; upgradeable to Android 15 EF551 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

EF551 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, EF551 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 5.45-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.

No worry, It's All-Day Battery

No need to worry about recharging while working! EF551 battery offers 14-hour 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 EF551 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 Express
- BOS™ Wi-Fine™ (WiFianalyze application)
- BOS™ EMM
- BOS™ Secure ID
- BOS™ Remote Battery Management

3'rd Party Solutions Integration

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



Specifications

PERFORMANCE CHARACTERISTICS

CPU	Qualcomm 6490 Octa Core, 2.7GHz
Operating System	Android 12; upgradeable to Android 15
Memory	4GB RAM / 64GB UFS Flash 8GB RAM / 64GB UFS Flash 8GB RAM / 128GB UFS Flash

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	159.9 x 79 x 16.65 mm
Weight	284.5g
Display	5.45" FHD+ (2160x1080)
Imager Window	Corning® Gorilla® Glass 5
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	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
Hot swap	Hot Swap Mode
Expansion Slot	MicroSD 32GB SDHC, up to 512GB SDXC
SIM / SAM	Hybrid Dual SIMSlot (2 Nano SIM or 1 Nano SIM/1 Micro SD) - 2 Nano SIM is supported by micro SD Card Supports 2 SAM (Optional) eSIM(Optional)
Interface	USB Type C Connector (USB 3.1) Docking Connector (Charging)
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 & Audio	Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; USB-C Type 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	- 5G : n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79 - LTE-FDD : B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B28 - LTE-TDD : B38/B39/B40/B41 - WCDMA : B1/B2/B4/B5/B8/B19 - GSM : 900/1800/850/1900
GPS	GPS, GLONASS, Galileo, Beidou, QZSS Dual-Band GNSS — concurrent L1/G1/E1/B1 (GPS/QZSS, GLO,GAL, BeiDou) + L5/E5a/BDSB2a (GPS/QZSS, GAL, BeiDou); a-GPS; supports XTRA

WIRELESS LAN

Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 Mu-MIMO; Wi-Fi™ certified; Wi-Fi™ 6E Certified; Dual Band Simultaneous; IPv4, IPv6
Data Rates	6GHz: 802.11a/n/ac/ax (WIFI 6E) > 160MHz — up to 2400 Mbps; 5GHz: 802.11a/n/ac/ax >20MHz, 40MHz, 80MHz — up to 1201 Mbps; 2.4GHz: 802.11b/g/n/ax4 > 20MHz — up to 286.8 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 v5.2; Bluetooth Low Energy
-----------	--------------------------------------

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)

DATA CAPTURE

Scanning	SE4710 1D/2D Scan Engine; SE4720 / SE4770 1D/2D Scan Engine (Optional); SE55 Advanced Range Scan Engine with IntelliFocus™ technology(Optional)
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. Card Emulation via Host and UICC

SENSOR

Light Sensor	Ambient Light Automatically adjusts display backlight brightness
Sensor	Proximity, 3-axis accelerometer , eCompass, Pressure, Gyro

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 concrete over -10° C to 50° C (14° F to 122° F) MIL-STD 810H
Tumble Spec	1000 1.6 ft./0.5 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

SOFTWARE SOLUTIONS

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

ACCESSORIES

Accessories	Direct Charger (5V/3A) Direct Charger (Fast charging) USB C Cable 3.1 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 Slot Battery Charger Handstrap & Stylus Holder / Stylus Soft Holder & Shoulder Strap Protective Film Trigger Handle UHF RFID Reader Sled (w/RF90x) Holster
-------------	--

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