

The Ultimate Performance for Enterprise Mobility

EF551 Series



EF551

EF551
Rugged 1EF551
Rugged 2

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

3rd Party Solutions Integration

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

✓ 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.

Key Features

BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

Speed upgrade of another level

Increase the efficiency of your work by Qualcomm® 6490 octa-core processor, up to 8GB of RAM and 128GB of Flash, plus a 2TB MicroSD card slot. It also offers approximately three times the data processing speed of the EF50X series.

Fast and Stable Network

Experience fast business progress speed with Wi-Fi 6E & 5G. Even you are working in the large facilities, you can give fast and stable performance by CBRS private LTE networks .

5.45-inch display with best in class outdoor readability

EF551 Series are waterproof & dustproof, and their screen provides clear display view under the bright sunlight. Bluebird's multi-touch technology applies wet glove and stylus touch.

Robust & Slim Design

EF551 series has the improved durability and ergonomic design and which makes it thinner, larger & stronger. EF551 Rugged SKU works well if you drop it from a height of 2.4m / 7.8ft, and it still works after 2,000 times of dropping from a height of 1.0m / 3.2ft. It applied Gorilla Glass on the Touch Pannel and Imager.

Key Features

BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

Powerful Performance

Bluebird's BOS™ Power Manager standard 4350 mAh and extended 6160 mAh batteries offer great power supply and long device working hour.

Scanning Range

If you want to scan in standard range, you can use SE4710, SE4720 1D/2D scan engine. Meanwhile, you can use SE55 1D/2D scan engine for advanced scan range with Intellifocus™ technology.

Use your cradle to create a mobile-driven workstation

The cradle of EF551 Series can be connected to various workstations. You don't have to care about every single connections of them.

World Class RFID Reader

The RFR900, a world-class handheld UHF RFID reader, and the next-generation model, RFR901, enable fast and safe operation. RFR900 can read 900 tags per second and RFR901 can read 1200 tags per second. If you connect Bluebird's adapter mount, Bluetooth, and NFC and use Wi-Fi-6e, you can reliably manage data on the reader connected to your mobile computer.

MANAGE YOUR WORK EFFICIENCY BY BOS™ OF BLUEBIRD

Manage your device easily

With Bluebird Zero-Touch, you can manage many devices just by scanning. BOS Wi-Fine manage Wi-Fi connection stable. Use Non-GMS OS Control to select Google Services. You can manage the device by BOS Dr.Device without repairing it.

Easy application performance and data management

You can use the BOS SDK, a custom development tool for enterprise applications. This enables rapid application development and provides a custom toolkit that is fast, efficient, and optimized. You can also easily manage bar code data using the Data Wedge API.

Cutting edge Battery technology

Bluebird's BOS™ Power Manager standard 4350 mAh and extended 6160 mAh batteries offer great power supply and long device working hour.

Scan your data with 2 kind of scanning range

If you want to scan in standard range, you can use SE4710, SE4720 1D/2D scan engine. Meanwhile, you can use SE55 1D/2D scan engine for advanced scan range with Intellifocus™ technology.

World Class RFID Reader Connection Available

The RFR900, a world-class handheld UHF RFID reader, and the next-generation model, RFR901, enable fast and safe operation. RFR900 can read 900 tags per second and RFR901 can read 1200 tags per second. If you connect Bluebird's adapter mount, Bluetooth, and NFC and use Wi-Fi-6e, you can reliably manage data on the reader connected to your mobile computer.

Reliable Security system

BOS™ SecureCare for Android™ can protect your devices safely. With Bos Kiosk, you can restrain apps and device features.

Manage your device easily

With Bluebird Zero-Touch, you can manage many devices just by scanning. BOS Wi-Fine manage Wi-Fi connection stable. Use Non-GMS OS Control to select Google Services. You can manage the device by BOS Dr.Device without repairing it.

Useful & Compatible accessories of EF551

Accessories of EF551 Series are compatible with EF55X Series. Cradles support charging and Ethernet, and 4-slot cradle can support charging each of 4 devices. You can charge the device with RFID Reader on the cradle. Trigger handle for standard or extended battery will help you scan easily. If you need to grab the device tightly, you may use the handstrap.

Location-Free Two-Way Communication

If you use BOS™ PTT, a subscription-type Push-to-Talk (PTT) express service, you can communicate regardless of location. BOS™ PTT helps you send and receive calls and messages over a WiFi network.

Increase work efficiency with the device

With All-touch Terminal Emulation and Enterprise Keyboard, you can get the touchscreen & keyboard you need for managing data. BOS onescan can help you select the barcodes, and OCR can help you capture standardized data.

Specifications

PERFORMANCE CHARACTERISTICS

| | |
|------------------|--|
| CPU | 2.7 GHz Octa Core Processor (QC6490) |
| Operating System | Android 12; Upgradeable to Android 16 |
| Memory | 4GB RAM/ 64GB UFS Flash 8GB RAM/ 128GB UFS Flash (Optional) |

PHYSICAL CHARACTERISTICS

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|---------------------------|---|
| Dimensions (L x W x D) | 159.9 × 79(grip : 77.6) x 16.65 mm 164.91 × 85.79 × 23.06 mm (Rugged SKU 1) 166.35 × 83.5(grip : 77.6) x 22.8 mm (Rugged SKU 2) |
| Weight | 284.5 g 332 g (Ultra Rugged SKU) |
| Display | 5.45" FHD+ (2160×1080) |
| 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 antimudge coating water droplet rejection |
| Backlight | LED backlight |
| Power | Rechargeable Li-Polymer, BOS™ PowerManager for realtime battery management; Standard capacity : 3.85V / 4350 mAh, 16.7Watt hours Extended capacity : 3.85V / 6160 mAh, 23.7Watt hours Hot Swap battery mode(All SKUs) BOS™ PowerManager Station |
| Hot swap | Supported |
| Expansion Slot | User accessible MicroSD ; supports up to 2TB |
| SIM / SAM | WWAN SKU Only - 1 Nano SIM - 1 E-SIM - 2 SAM (Optional) |
| Interface | USB Type C Connector (USB 3.1) Docking Connector (Charging) Rear 10-pin connector |
| Notification | Audible tone; multi-color LEDs; vibration |
| Keypad & Button | 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; PTT headset support; Bluetooth wireless headset support, SWB & FB audio USB-C Type audio support(WWAN SKU only) 3.5mm headset jack(WLAN SKU only) |
| PTT Hot Key | Support - Available dual-action side scan triggers |

WIRELESS WAN DATA AND VOICE COMMUNICATIONS

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| Radio Frequency Band | Worldwide - 5G FR1 : n1/2/3/5/7/8/12/13/14/20/25/26/28/29/38/39/40 /41/48/66/71/77/78/79 - 4G : B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28 /38/39/40/41/42/43/48/66/71 - 3G : B1/B2/B4/B5/B8/B19 - 2G : 900/1800/850/1900 |
| GPS | (for WWAN only) 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

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|-------------------------|--|
| Radio | Wifi: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2×2 Mu-MIMO; Wi-Fi™ 6E (801.11ax) Wi-Fi™ certified; Wi-Fi™ 6E CERTIFIED 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); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2); EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP and EAP-PWD; WPA3 Enterprise 192-bit mode (GCMP-256) — EAP-TLS; Enhanced Open (OWE) |

WIRELESS PAN

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| Radio | Bluetooth v5.2, BLE |
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WIRED LAN

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| Ethernet | Support (w/ Ethernet Cradle - 1GHz) |
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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.



Specifications (Continued)

COMMUNICATION AND MESSAGING

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| VoIP / PTT |
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DATA CAPTURE

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|----------|---|
| Scanning | SE4720 1D/2D Scan Engine SE4770 1D/2D Scan Engine (Optional) SE55 1D/2D 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 Contactless payment support, ECP1.0 and ECP2.0 polling support, Apple VAS certified (Optional) Innovatron NFC |

SENSOR

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|---------------|---|
| Light Sensor | Ambient Light Automatically adjusts display backlight brightness |
| Motion Sensor | Proximity, eCompass, accelerometer. Gyroscope, Pressure |

USER ENVIRONMENT

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|-------------------------------|--|
| 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) per MIL-STD 810H (Ultra Rugged SKU) Multiple 8 ft./2.4 m drop to concrete at room temperature per MIL-STD 810H Multiple 6 ft./1.8 m drop to concrete across full operating temperature range, EN 62262 (IKO6) |
| Tumble Spec | 1000 1.6 ft./0.5 m tumbles, meets or exceeds IEC tumble specification 2000 3.2 ft./1.0 m tumbles; (Rugged SKU) 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

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|----------------------------------|--|
| BOS™ | BOS™ -Provisioning; -Staging; -Kiosk; -Virtual Key; -Enterprise 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 |

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



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