

Ultimate Rugged Mobile Touch Computer

EF550R

Ultimate Performance & Rugged Enterprise Mobile Computer

EF550R offers the larger display of 5.45" with enhanced innovative fe atures and form factor that provide more huge value and productivity to enterprise frontline user environment. With the enhanced barcode scan engine and various features of the upgraded BOS™ solutions of integrated device management, EF550R is the device designed to ma ximize work efficiency. Experience the ultimate rugged and performa nce of the EF550R, a product of Bluebird's all cutting edge technolog v optimized for enterprise environment.







Android 10; Upgradeable to



Sealing IP68 & IP65



Performance
Octa-Core Processor



Wireless Wifi.Bluetooth



BatteryUser Replaceable,
Smart Battery



Scanning

Enhanced 1D & 2D imager



Operation Temp

-20°C to 50°C -4°F to 122°F



Camera 13MP Autofocus

Display 5.45" HD+ (1440x720)

Drop Resistance

Multiple 8 ft./2.4 m drop to concrete at room temperature per MIL-STD 810G

Key Features

Ultimate Performance

With adopting Qualcomm Snapdragon®, the best CPU for enterprise and Android 10; upgradeable to Android 14, EF550R 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

EF550R has 2x2 Multiple-User Multiple Input Multiple Output (MU-MIMO) technology that makes possible for multiple devices communi cate with access points simultaneously throug h pinpoint beamforming, which leads to enhan cement in Wi-Fi network speed, range, and c apacity. And access

point is the one who processes not the device, increasing device battery cycle time

Ultimate Rugged & Durability

Through Bluebird TankSmith® technology, EF 550R is designed for the enterprise with the hi ghest-in-class drop spec of 8 ft. (2.4m) and se aling up to IP68 to provide the ultimate durability and usability allowing use in environments e xposed towater, humidity, or dust.

The Largest Display

The largest-in-class 5.45-inch display provides m ore quality information to the device users and a t the same time, it enhances working condition with the best-in-class outdoor readability for us ers to read the screen even in bright sunlight.

Power every minute of every workday

The standard battery provides power for a full s hift. For longer shifts, an extended battery is av ailable.(Standard battery :14 hours, Extended b attery :19.8 hours)

Enhanced Data Capture

With the enhanced barcode module, high spe ed barcode scanning is available andeven rea dable for damaged or contaminated barcode I abels, supporting proximity scan and extended range scan to make it easy work.

Business Optimized Solution

Bluebird BOS™ (Business Optimizing Solutions) provides various features optimized for use of e nterprise device from app development, device deployment, to business performance managem ent as an integrated solution system. With BOS ™ you can implement integrated management f or EF550R in an efficient way.

Industry & Applications

Retail - Store associates

- Price/Inventory checks and audits
- Inventory management
- BOPIS (Buy online, Pick up instore)
- Loyalty management
- Assisted selling
- Voice communication
- Electronic coupons
- Store transfers
- Gift registrylookup

Retail – Store managers

- Workforce management
 Planogram management
- Promotion compliance
- Merchandising

Field Service Technicians

- Asset management / Invoicing

T&L

- Proof of Delivery / Last miledelivery **Healthcare**

- Patient management, Staff communication

Manufacturing

- Order/Return processing
- Inventory management / Work order management

Hospitality

- Order taking

Government/Public Safety

ID validation/Ticketing

BOS™ Solutions & Software

BOS™ Provisioning; Staging; Kiosk; Virtual Key; Enterprise Keyboard

- BOS™ VolP
- BOS™ PTT, PTTEssential
- 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





Chacifications

Operating Android 10; System Android 14 Upgradeable to Android 14 Upgradeable to Android 14	PERFORMANCE	CHARACTERISTICS	WIRELESS WA	AN DATA AND VOICE COMMUNICATIONS
PHYSICAL CHARACTERISTICS Rugged SKU 1 : 166.45 x 85.79 x 23.06 mm Rugged SKU 2 : 166.35 x 83.5 X 22.8 Rugged SKU 2 : 166.35 x 83.5 X 22.8 Rugged SKU 1 : 166.45 x 85.79 x 23.06 mm Rugged SKU 2 : 166.35 x 83.5 X 22.8 Notth America (AT&T, Verizon, T-Mobile) - 4G : 82/84/85/81/2813/814/866/871 - 3G : 82/84/85 Rugged SKU 1 : Rugged Bumper encompasses the entire device 2	Operating System	Qualcomm Snapdragon 660 octa-core, 2.45 GHz Android 10; Upgradeable to Android 14	Worldwide - 4G: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B26/E - 3G: B1/B2/B4/B5/B8/B9/B19 South Korea(SKT) - 4G: B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B26/B19 Radio - 3G: B1/B2/B4/B5/B8/B9/B19	
Rugged SKU 1: 166.45 x 85.79 x 23.06 mm Rugged SKU 2: 166.35 x 83.5 X 22.8 Dimensions (Lx Wx D) I Rugged SKU 1: 186,45 x 85.79 x 23.06 mm Rugged SKU 1: 186.45 x 83.5 X 22.8 Notes: 1 Rugged SKU 1: Rugged Bumper encompasses the entire device 2 Rugged SKU 1: Rugged Bumper is located on the top and bottom the top and bottom the top and bottom the top and bottom weight 332 g Displey 332 g Displey Corning® Gorilla® Glass Dual mode capacitive touch with stylus or bare or gloved fingerity input (conductive stylus orbare or gloved fingerity input (conductive stylus sold separately); Fingerprint resistant antismudge coating water droplet rejection Backlight Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Rechargeable Li- Polymer, BOS™ PowerManager Station Hot swap Supported Expansion Slot User accessible MicroSD 32GB SDHC and up to 512GB SDXC (WWAN SKU Onhy) Hybrid Dual SIM/Slot I Nano SM is supported by micro SD Card Slot 2 SMM (Optional) USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power buttor; Voice and Audio Voice and Audio 3.5mm headset jack	wemory	4GB RAM / 64 or 128GB Flash (Optional)		
Rugged SKU 1 : 166.45 x 85.79 x 22.80 mm Rugged SKU 2 : 166.35 x 83.5 x 22.8 **Notes: 1. Rugged SKU 2 : 169.35 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **Notes: 2. Rugged SKU 2 : 180.95 x 83.5 x 22.8 **WiFill Bis 36.5 x 83.5 x 32.5 x 32	PHYSICAL CHAR	ACTERISTICS		North America (AT&T Verizon T-Mobile)
Weight 332 g GPS (WWAN SRU Only) Autonomous, Concurrent GPS; GLONASS; Gallleo, BeiDou, and Ar-GPS Display 5.46" HD+ (1440 x 720), TFT-IPS GPS MIRCEUS AGE Imager Window Corning® Gorilla® Glass WIRELES LAN Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately); Fingerprint resistant antismudge coating water droplet rejection Wirelim certified; IPV4, IPV6, 2x2 MU-MIMO Backlight LED backlight Rechargeable Li Polymer, BOS™ PowerManager for realtime battery management Wirelim certified; IPV4, IPV6, 50Hz 2x2 MU-MIMO Power Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery: 3.85V / 6160 mAh, 23.7 Watt hours Data Rates 2.4GHz: 802.11a/n/ac — up to 300 Mbps GHz: 802.11b/g/m — up to		Rugged SKU 2 : 166.35 X 83.5 X 22.8 *Notes: 1) Rugged SKU 1: Rugged Bumper encompasses the entire device 2) Rugged SKU 2 : Rugged Bumper is located		- 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
Display 5.45" HD+ (1440 x 720), TFT-IPS Imager Window Corning® Gonilla® Class Use Imager Window Corning® Gonilla® Class Output Mith stylus or bare or gloved fingertip input (conductive stylus sold separately): Fingerprint resistant antismudge coating water droplet rejection Window 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, 2.37 Watt hours BOS™ PowerManager Station Windows Standard capacity: 3.85V / 6160 mAh, 2.37 Watt hours BOS™ PowerManager Station Windows Standard Capacity: 3.85V / 6160 mAh, 2.37 Watt hours BOS™ PowerManager Station Windows	Weight		0.00	
Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately); Fingerprint resistant antismudge coating water droplet rejection Backlight ED backlight ELD backlight Rechargeable Li- Polymer, BOS™ PowerfManager for realtime bettery management 16.7 Wat hours Extended Battery: 3.85V / 4350 mAh, 16.7 Wat hours BOS™ PowerfManager Station Hot swap Expansion Slot Expansion Slot Slupported Expansion Slot Slupported Expansion Slot 19 Yes accessible MicroSD 32GB SDHC and up to 512GB SDXC (WWAN SKU Only) Hybrid Dual SIM Stot SIM / SAM 20 Nano SIM or 1 Nano SIM/1 MicroSD) -1 Nano SIM is supported by micro SD Card Slot 2 SAM (Optional) USB Type C Connector (USB 2.0) Doking Connector (USB 2.0) Doking Connector (Charging) Rear 10-pin Connector 10-pin Connector On-screen keypad and Enterprise Keyboard power button; Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio 3.5mm headset jack	Display	5.45" HD+ (1440 x 720), TFT-IPS	GPS	
Dual mode capacitive touch with stylus or bare or gloved fingeripi input (conductive stylus sold separately); Fingerprint resistant antismudge coating water droplet rejection Backlight LED backlight Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery: 3.85V / 4350 mAh, 16.7 Watt hours BOS™ PowerManager Station Hot swap Supported Expansion Slot SIM / SAM (2 Nano SIM or 1 Nano SIM/1 MicroSD) -1 Nano SIM is supported by micro SD Card Slot 2.5 AM (Optional) USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Voice and Audio Voice and Audio Julia capacity: pinytic (conductive stylus of a capacity); Fingerprint resistant antismudge coating water foreign input (conductive with stylus of the WiFFI™ certified; IPv4, IPv6, 2v2 MU-MIMO WWAN: IEEE 802.11a/b/g/n/ac/d/h/i/rik/www WiFFI™ certified; IPv4, IPv6, 5cHz 2x2 MU-MIMO WWAN: IEEE 802.11a/b/g/n/ac/d/h/i/rik/ww WiFFI™ certified; IPv4, IPv6, 5cHz 2x2 MU-MIMO SGHz 2.6 MC (PowerManager for realtime battery management power button; WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP and AES); WPA/WPA	Imager Window	Corning® Gorilla® Glass	WIRELESSLAI	N
Backlight LED backlight Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery: 3.85V / 6160 mAh, 23.7 Watt hours Supported Supported Security and Experiment Supported Security and EAP-TLS, PEAPvo-MSCHAPv2, Phybrid Dual SIM Slot S12GB SDXC Encryption PEAPv1-EAP-GTC and LEAP-EAP-PWI Phybrid Dual SIM Slot S2 MM (Optional) Data at Rest: FIPS 140-2 Level 1 Dat	Touchpanel	bare or gloved fingertip input (conductive stylus sold separately); Fingerprint resistant antismudge coating		WiFi: IEEE 802.11a/b/g/n/ac/d/h/i/r/k/v/w; Wi-Fi™ certified;
Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery management Power 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 (WWAN SKU Only) Hybrid Dual SIM Slot SIM / SAM (2 Nano SIM or 1 Nano SIM/1 MicroSD) - 1 Nano SIM is supported by micro SD Card Slot 2 SAM (Optional) USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Notification Notification Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Volce and Audio Voice and Audio Voice and Audio Notice and Audio Recharder and Audio Au	Backlight			WWAN: IEEE 802.11a/b/g/n/ac/d/h/i/r/k/v/w;
Power Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery: 3.85V / 6160 mAh, 23.7 Watt hours BOS™ PowerManager Station WPA/WPA2 Personal (TKIP and AES); PEAP-VPA/PA2 PEAP-VPA/PA2 Personal (TKIP and AES); PEAP-V	Dackiigiit	Rechargeable Li- Polymer, BOS™ PowerManager for realtime battery		IPv4, IPv6, 5GHz 2x2 MU-MIMO
BOS™ PowerManager Station Supported Expansion Slot User accessible MicroSD 32GB SDHC and up to 512GB SDXC (WWAN SKU Only) Hybrid Dual SIM Slot SIM / SAM (2 Nano SIM or 1 Nano SIM/1 MicroSD) - 1 Nano SIM is supported by micro SD Card Slot 2 SAM (Optional) UsB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector On-screen keypad and Enterprise Keyboard power button; Keypad Voice and Audio Voice and Audio BOS™ PowerManager Station WPA/WPA2 Personal (TKIP and AES); WPA/WPA2 Enterprise (TKIP and AES)	Power	Standard capacity: 3.85V / 4350 mAh, 16.7 Watt hours Extended Battery: 3.85V / 6160 mAh,	Data Rates	2.4GHz: 802.11b/g/n — up to 300 Mbps
Hot swap Supported User accessible MicroSD 32GB SDHC and up to 512GB SDXC (WWAN SKUOnly) 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) USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Notification Notification Notige a beach, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio User accessible MicroSD 32GB SDHC and up to 512GB S2DHC and up to 512GB S2 Security and EAP-TLS, PEAPv0-MSCHAP, MSCHAP,				` '
Expansion Slot 512GB SDXC (WWAN SKUOnly) Hybrid Dual SIM Slot SIM / SAM (2 Nano SIM or 1 Nano SIM/1 Micro SD) - 1 Nano SIM is supported by micro SD Card Slot 2 SAM (Optional) USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio EAP-TLS, PEAPv0-MSCHAPv2, Encryption PEAPv1-EAP-GTC and LEAP.EAP-PWI And EAP-TLS, PEAPv0-MSCHAPv2, Encryption PEAPv1-EAP-GTC and LEAP.EAP-PWI And EAP-TLS, PEAPv0-MSCHAPv2, Encryption PEAPv1-EAP-GTC and LEAP.EAP-PWI And EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP.EAP-PWI And EAP-TLS, PEAPv0-MSCHAPv2, Band EAP-TLS, PEAPv0-MSCHAPv2, Band EAP-TLS, PEAPv0-MSCHAPv2, Band EAP-TLS, PEAPv0-MSCHAPv2, Band BEAP-TLS, PEAPv0-MSCHAPv2, Band Beap. TLS, PEAPv0-MSCHAP, Band Beap. TLS, PEAPvo Beap	Hot swap			WPA/WPA2 Enterprise (TKIP and AES)
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) USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Keypad Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio Jata in Motion: FIPS 140-2 Level 1 Data at Rest: FIPS 140-2 Level 1 Data in Motion: FIPS 140-2 Level 1 Data in Motion: FIPS 140-2 Level 1 Data in Motion: FIPS 140-2 Level 1 Data at Rest: FIPS 140-2 Level 1 Data in Motion:	Expansion Slot	·	Coounty	— EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2,
Interface USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin Connector Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio USB Type C Connector (USB 2.0) Bluetooth Bluetooth v5.0, BLE Class 2 WIRED LAN Ethernet Support (w/ Ethernet Cradle)	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	Encryption	Data in Motion: FIPS 140-2 Level 1
Interface Docking Connector (Charging) Rear 10-pin Connector Ethernet Support (w/ Ethernet Cradle) Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Keypad Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio 3.5mm headset jack			WIRELESS PA	N
Notification Audible tone; multi-color LEDs; vibration On-screen keypad and Enterprise Keyboard power button; Keypad Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio Ethernet Support (w/ Ethernet Cradle)	Interface	Docking Connector (Charging) Rear		Bluetooth v5.0, BLE Class 2
On-screen keypad and Enterprise Keyboard power button; Volume up/down buttons Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio 3.5mm headset jack		·	Ethernet	Support (w/ Ethernet Cradle)
Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones; Vibrate alert; High-quality speaker phone; Voice and Audio 3.5mm headset jack	Notification	On-screen keypad and Enterprise Keyboard power button;		
Voice and Audio 3.5mm headset jack	Keypad	Home, Back, Menu Dual-action side scan triggers Dual noise-cancelling microphones;		
Bluetooth wireless headset support,	Voice and Audio	3.5mm headset jack PTT headset support;		

^{*} Android version is subject to change depending upon Qualcomm's roadmap.

SWB & FB audio

Support

PTT Hot Key

- Available dual-action side scan triggers

^{*} 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. Card Emulation via Host and UICC				
SENSOR					
Light Sensor	Ambient Light Automatically adjusts display backlight brightness				
Other Sensors	Proximity, eCompass , accelerometer. Gyroscope, Pressure				
USER ENVIRONM	ENT				
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 8 ft./2.4 m drop to concrete at room temperature per MIL-STD 810G Multiple 6 ft./1.8 m drop to concrete across full operating temperature range				
Tumble Spec	2000 3.2 ft./1.0 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 SOLU TIONS				
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			
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.