






The Ultimate Performance
Combination Keypad/Touch Mobile

EK430



Industry & Applications

-  Retail – Store associates
 - Inventory management
 - In-store communications
-  Retail – Store managers
 - Backroom warehouse management
 - Store receiving
-  Manufacturing workers
 - Inventory management
 - Supply-line replenishment
 - Safety testing
 - Parts tracking
-  Warehouse workers
 - Warehouse management
 - Picking and put-away
 - Return processing
 - Voice-directed applications
 - EDI transactions
 - Inventory management
-  Transportation Workers
 - Electronics Toll collection system

BOS™ Solutions & Software

- BOS™ Provisioning; Staging; Kiosk; Virtual Key
- BOS™ Keyboard
- BOS™ VoIP
- BOS™ PTT, PTT Essential
- BOS™ Wi-Fine™ (WiFi analyze application)
- BOS™ EMM
- BOS™ OTA
- BOS™ OEMConfig

3rd Party Solutions Integration

- TE : Wavelink(Ivanty)
- Velocity All-touch TE
- Pre-loaded on every model
- EMM : Airwatch , MobileIron , Mobicontrol, Mass360, XenMobile
- PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT

✓ Upgrade to Android™, the advanced mobility platform, with Bluebird's next-generation EK430 series. The proven OS that transformed the consumer market is now business-ready with guaranteed security. Run existing terminal emulation (TE) apps or switch to intuitive touchscreens for a better user experience. Bluebird's BOS™ solutions simplify deployment and development, helping streamline operations and boost productivity. The EK430 offers a lightweight ergonomic design, large touchscreen, multiple keypads, and exceptional scanning. With versatile form factors, including trigger handle SKUs that support rear camera functionality, it adapts to your business needs effortlessly.

Key Features

BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

Certified for Android, ensuring reliable security and top performance

The Android Certified EK430 ensures security and seamless compatibility with a growing range of warehouse and enterprise apps.

Reliable High-Speed Connectivity

Reliable connectivity is key, and the EK430 delivers with 802.11ac and fast roaming, ensuring seamless, high-speed voice and data performance.

Maximize Flexibility, Performance, Durability, and Comfort Customize to Fit Your Needs

With multiple form factors, scan engines, keypads, and functionality options, the EK430 fits any business need.

Key Features

BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

Seamlessly Migrate Your Apps to Android Optimal Blend of Touchscreen and Keypad

The Bluebird EK430 supports both touch and keypad input, offering a familiar experience while enabling an easy transition to touch-based interfaces. Choose from alphanumeric, numeric, or functional numeric keypads for optimized data entry.

Superior Scanning Performance Extended Range for Maximum Flexibility

The Bluebird EK430 offers versatile scanning from 3 inches to 70 feet, capturing barcodes in any condition—scratched, dirty, poorly printed, or under shrink wrap— with a wide field of view for easy reading of large barcodes.

Advanced Data and Image Capture

The Bluebird EK430 offers 1D/2D SE4750SR, SE4770, and 1D SE965 scanning options, along with a 13MP rear camera—compatible with the trigger handle—for high-resolution imaging.

Built Tough for Your Business Needs

The EK430 features a durable 5 ft. (1.5 m) drop rating, a tough Corning® Gorilla® Glass touchscreen, and a spacious 4-inch display for enhanced visibility.

Specifications

PERFORMANCE CHARACTERISTICS

CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz 64bit Processor
Operating System	Android 10 Planned to be upgraded to Android 14
Memory	4GB RAM / 32GB UFS Flash (Optional) 4GB RAM / 64GB UFS Flash

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	Straight Shooter Type (0° Scan) : 210 × 76 × 37 mm Gun/Pistol Type : 210 × 76 × 161 mm
Weight	Straight Shooter Type (0° Scan) : 450g Gun/Pistol Type : 552.8g
Display	4.3-Inch (480 × 800) WVGA, IPS
Touchpanel	Dual input mode with finger, gloved finger and stylus (conductive stylus sold separately)
Backlight	LED backlight
Brightness	Outdoor readable 500 Nits (typical)
Power	User replaceable Battery Rated/Min. : 6700mAh, 24.12Wh Typical : 6800mAh, 24.48Wh /Smart Battery/Hot Swap mode support
Hot swap	Supported
Quick Charging	Fast charging - Full charge under five (5) hours;
Expansion Slot	User accessible microSD with 32GB SDHC and up to 512GB SDXC
SIM / SAM	(Optional) 1 Nano SIM
Interface	USB Type C Connector (USB 3.1) compatible with OTG Bottom 8-pin connector Rear 10-pin connector
Notification	Audible tone multi-color LEDs Vibration (Message, Scan.)
Keypad & Button	30 Key Numeric 34 Key Numeric with Function Keys 47 Key Alpha Numeric
Voice and Audio	Built-in speaker and microphone Audio Jack BOS™ PTT Essential and BOS™ PTT Pro support (Internal speaker, microphone and Bluetooth wireless headset support)
PTT Hot Key	Supported - available dual-action side scan triggers

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 2G : 900/1800/850/1900
GPS	(for WWAN SKU only) A-GPS, GLONASS, BEIDOU, Galileo

WIRELESS LAN

Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc Wi-Fi™ certified; IPv4, IPv6, 2×2 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); 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

Bluetooth	Class 2, Bluetooth v5.0 with BR/EDR and Bluetooth Low Energy (BLE) Support
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DATA CAPTURE

Scanning	1D only Laser Imager : - SE965 Standard Range 1D & 2D Led Imager : - SE4710 Standard Range - SE4720 Standard Range 1D & 2D Laser Imager - SE4770 Standard Range - SE4750 Mid Range - SE4850 Long Range *Code 39, Code 128, Code93 Supported
Camera	Rear: 13MP Autofocus ; flash LED (Optional) Front: 5MP Fixed focus (Optional)
NFC	Tap to Pair, ISO 14443 Type A and B, Felica and ISO 15693 cards, P2P mode and Card Emulation via Host (HCE) support

* 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 are subject to change without notice and some features may vary by region.

Specifications

SENSOR

Light Sensor	Ambient Light
Other Sensors	Proximity, Gyroscope, Accelerometer

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	5% to 95% RH (Non-condensing)
Drop Spec	Multiple 6 ft./1.8 m drops to concrete across the operating temperature range 1.22M MIL-STD-810G, Method 516.7 Shock procedure IV
Tumble Spec	3,000 3.3 ft. /1.0 m tumbles; meets and exceeds IEC tumble specification
Sealing	IP65
Vibration	Sine: 4g's peak, 5hz to 2khz, Random: .04g ² /hz, 20hz to 2khz
Thermal Shock	-40°F to 158°F (-40° C to 70°C) rapid transition
Electrostatic Discharge (ESD)	+/- 15kV air, +/-8kV direct discharge +/- 8kV indirect contact discharge

ACCESSORIES

Accessories	Device (w/ Handstrap), Battery - Trigger Handle - Cradle 1) 1SC Cradle w/ spare battery charger, 2) 1SC Ethernet Cradle w/ spare battery charger, USB C OTG Port 3) 4SC Cradle w/ spare battery charger 4) 4SC Ethernet Cradle w/ spare battery charger - Direct Chager Kit (Compatible with NEMA 1-15p Connector) - Handstrap / Shoulder Strap - Protective boot - Screen protector (Anti-reflective) - Stylus Pen & String - Vehicle Charger
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SOFTWARE SOLUTIONS

BOS™	- Provisioning - Staging - Kiosk - Virtual Key - BOS™ Keyboard - VoIP - PTT, PTT Essential - Wi-Fine™ (WIFI analyze application) - Secure ID (Security Management Solution) - EMM - OTA - OEMConfig
3 rd Party Solutions Integration	-TE : Wavelink(Ivanti) -Velocity All-touch TE -Pre-loaded on every model -EMM : Airwatch , MobileIron , Mobicontrol, Mass360, XenMobile -PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT