

The accessible, rugged device for Enterprise Mobility based on 5G



Industry & Applications

Retail – Store associates

- Price/Inventory checks
 - Item locator
- Line busting
- Assisted selling
- Task management
- Front of store replenishment
- Price management
- Inventory/cycle counts

Retail – Store managers

- Fleet Management
 - Planogram management
 - Promotion compliance
 - Merchandising

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

- Back of store management
 Field Service Technicians
 - Invoicing & Asset management
 - Staff Communication
 - Postal Carriers/Courier Drivers
 - Location services & Proof of Delivery
 - Asset & Fleet management
 - · Packing & Staging & Invoicing
 - Work Order Validation
- Entertainment / Restaurant Workers
 Staff Communication
 - Access & Asset & Staff ID & Counter / Front Task Managemet
 - Loyalty, Membership & Gift Cards
 - Security & Validating Tickets

BOS[™] OemConfig

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

Meet the all-new next generation device, Bluebird's S20 to experience brilliant specifications, light weight and brand new OS. The OS of S20 is Android 13, and it is upgreadable to Android 17, which is the latest Android version ever before. Due to the slim, light and ergonomic design of S20, it is easier to grip and suits almost every hand sizes than other devices. S20 is for users who search for compact device with reasonable price.

Key Features

BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

Speed upgrade of another level

Increase the efficiency of your work by Qualcomm[®] 4490 octa-core processor, up to 8GB of RAM and 128GB of Flash, plus a 2TB MicroSD card slot.

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 .

6-inch display with best in class outdoor readability

S20 is waterproof & dustproof, and the screen provides clear display view under the bright sunlight. Bluebird's multi-touch technology applies glove and stylus touch.

Robust & Slim Design

S20 has the improved durability and ergonomic design and which makes it thinner, larger & stronger. If you drop it from a height of 1.5m / 5ft, or drop it 550 times from a height of 0.5m / 1.6ft, it still works. It applied Gorilla Glass on the Touch Pannel and Imager.



Key Features

3EST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

Cutting edge Battery technology

Bluebird's BOS[™] Power Manager standard 4000 mAh and extended 6000 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/SE4100/4720 1D/2D scan engine or SE55 1D/2D scan engine for advanced scan range.

High Solution Camera

Experience 16 MP autofocus integrated camera with flash LED. You can see the pictures at great quality.

Supportive microphone and speaker

2 microphones and 1 speakers improve your communication with co-workers.

CONVENIENT CONNECTION & COMMUNICATION

Location-Free Two-Way Communication

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

World Class RFID Reader Connection Available

The RFR900, a world-class handheld UHF RFID reader, and the nextgeneration 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

Reliable Security system

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

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.

Increase work efficiency with the device

With Terminal Emulation and BOS[™] Keyboard, you can get the touchscreen & keybord you need for managing data. BOS onescan can help you select the barcodes, and OCR can help you capture standardized data.

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.



Specifications

PERFORMANCE CHARACTERISTICS

CPU	Qualcomm Snapdragon™ QC4490 octa-core, 2.4 GHz	
Operating System	Android 13; Upgradeable to Android 17	
Memory	6GB RAM / 64GB UFS Flash 8GB RAM / 128GB UFS Flash (Optional)	

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	165 × 76.9 × 12.5 mm	
Weight	243 g	
Display	6" FHD+ (1080×2160)	
Imager Window	Corning® Gorilla® Glass 5	
Touchpanel	Multi-mode capacitive touch with bare or gloved fingertip input or conductive stylus (sold separately), Corning Gorilla Glass; water droplet rejection; fingerprint resistant anti-smudge coating	
Backlight	LED backlight	
Power	Rechargeable Li-Polymer, BOS [™] PowerManager for realtime battery management Standard capacity 4000mAh / 15.4 Watt hours; Extended capacity 6000mAh / 23.1 Watt hours; (Optional) Hot Swap battery mode BLE Beacon Battery 4000mAh	
Hot swap	Supported	
Expansion Slot	User accessible MicroSD; supports up to 2TB	
SIM / SAM	WWAN SKU Only: 1 Nano SIM; 1 eSIM	
Interface	Rear: 8-pin communication connector Bottom: USB-C 3.1 OTG w/ DP mode 2-pin Charging Connector	
Notification	Audible tone; multi-color LEDs; Scan LED; vibration; Haptick Feedback, multi-color LEDs (Top)	
Keypad & Button	On-screen keypad and BOS [™] Keyboard; power button; Volume up/down buttons; Dual-action side scan buttons; Dedicated PTT Button; button of trigger handle via Back I/O.; Top alert Button	
Voice and Audio	Dual noise-cancelling microphones; Vibrate alert; High-quality Dual speaker phone (100dB); PTT headset USB-C Type support; Bluetooth wireless headset support, SWB & FB audio cellular circuit switch voice; HD voice	
PTT Hot Key	Support Dedicated PTT Button	

WIRELESS WAN DATA AND VOICE COMMUNICATIONS Rest of World Radio Frequency • 5G FR1: n1/3/5/7/8/20/26/28/38/39/40/41/48/77/ Band 78/79 · 4G: B1/3/5/7/8/18/19/20/26/28/34/38/39/40/41/ 42/43/48 • 3G: B1/3/5/8/9/19 • 2G: 900/1800/850/1900 America (NA+SA) • 5G FR1: n2/5/7/12/13/14/25/26/28/29/38/41/48/ 66/71/77/78/79 · 4G: B2/4/5/7/8/12/13/14/17/25/26/28/29/38/41/ 42/43/48/66/71 • 3G: B2/4/5/8 · 2G: 900/1800/850/1900 GPS (Only on WWAN SKUs) GPS, GLONASS, Galileo, BeiDou, QZSS Dual-Band GNSS (Optional) 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; 2×2 Mu-MIMO; Wi-Fi[™] 6E (801.11ax); Wi-Fi certified; Wi-Fi[™] 6E Certified; Dual Band Simultaneous; IPv4, IPv6 Data Rates 6GHz: 802.11ax - 20MHz, 40MHz, 80MHz, 160MHz — up to 2402 Mbps; 5GHz: 802.11a/n/ac/ax — 20MHz, 40MHz, 80MHz, 160MHz — up to 2402 Mbps; 2.4GHz: 802.11b/g/n/ax - 20MHz up to 286.8 Mbps Security and WEP (40 or 104 bit); Encryption Enhanced Open (OWE); WPA/WPA2 Personal (TKIP, and AES);

WEP (4001 104 bit);
Enhanced Open (OWE);
WPA/WPA2 Personal (TKIP, and AES);
WPA3 Personal (SAE);
WPA2 Enterprise (TKIP and AES);
WPA3 Enterprise (AES)
— EAP-TTLS (PAP, MSCHAP, MSCHAPv2);
EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC,
LEAP, EAP-PWD; WPA3 Enterprise 192-bit mode
(GCMP256) — EAP-TLS; WWAN models only: WPA3
Enterprise EAPSIM, EAP-AKA. EAP-AKA Prime

Class 2, Bluetooth v5.3 and Secondary BLE for

WIRELESS PAN

Bluetooth

WIRED LAN

Ethernet

Support (w/ Ethernet Cradle - 1GHz)

beaconing within BLE battery

*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

-		Operating Temp	-20°C to 50°C / -4°F to 122°F
DATA CAPTU	RE	Storage Temp	-40°C to +70°C / -40°F to +158°F
Scanning (Default)		Humidity	5% to 95% non-condensing
	SE4710 1D/2D Scan Engine	Drop Spec	Multiple 5 ft./1.5 m drops to tile over concrete across operating temp (-10°C to 50°C/14°F to 122°F) per
	SE4100 SE4720 (White Illumination, Green Aimer) SE55 1D/2D Advanced Range Scan Engine		MIL-STD 810H Multiple 5.25 ft./1.6 m drops to concrete over operating temp (-10°C to 50°C/14°F to 122°F) with
Camera	Rear – 16 MP AutoFocus; flash LED, PDAF, Torch mode+HDR; better low light performance;	Tumble Spec	protective boot per MIL-STD 810H 550 1.6 ft./0.5 m tumbles
	Front – 8MP fixed 5MP fixed (Optional)		(Rugged boot) 550 3.3 ft./1.0 m tumbles optional protective boot
	AR Core Certification	Sealing	IP68 and IP65, with battery per applicable IEC sealing specifications
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Contactless payment support,	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
	(Optional) ECP1.0 and ECP2.0 polling support, Apple VAS certified	Thermal Shock	-40°C to 70°C / -40°F to 158°F rapid transition
		Electrostatic Discharge (ESD)	+/-15kv air discharge +/-8kc direct discharge +/-8kv indirect discharge

SENSOR

Light Sensor	Ambient Light Automatically adjusts display backlight brightness
Other Sensors	Proximity, accelerometer. Gyroscope, Pressure (WWAN only) eCompass (not available in the base LAN model)

SOFTWARE SOLUTIONS

USER ENVIRONMENT

BOS™	 BOS[™] Provisioning; Staging; Kiosk; Virtual Key; BOS[™] 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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