

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

S20



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
- 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 Management
- Loyalty, Membership & Gift Cards
- Security & Validating Tickets

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™ DemConfig

3rd 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 upgradable 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 Panel and Imager.

Key Features

BEST-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.

High Solution Camera

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

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.

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 subscription-type 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 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

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.

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.

Increase work efficiency with the device

With Terminal Emulation and BOS™ 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	Qualcomm QC4490 octa-core, 2.4 GHz
Operating System	Android 13 (Upgradeable to Android 17)
Memory	6GB RAM / 64GB UFS 3.1 Flash 6GB RAM / 128GB UFS 3.1 Flash (optional)

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	256.6 × 165 × 11.4 mm
Weight	690 g
Display	10.1 Inch WUXGA (1920×1200), LED back-light, TFT-IPS
Imager Window	Corning® Gorilla® Glass
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
Power	8,000mAh BOS™ PowerManager for real-time battery management
Expansion Slot	User accessible MicroSD supports up to 2TB
SIM / SAM	(Only WWAN SKU) • 1 Nano SIM • 1 eSIM
Interface	USB-C 3.1 OTG Bottom: 10-pin Communication & Charging Connector I/O Rear Side: 10-pin Communication & Charging I/O
Notification	Audible tone Multi-color LEDs; (charging) Vibration
Keypad	Virtual, Bluetooth, USB
Voice and Audio	Two microphones with noise cancellation Vibrate alert Dual speakers; (TW 2x Speakers) 3.5mm audio jack PTT headset support Bluetooth wireless headset support, SWB & FB audio

WIRELESS WAN DATA AND VOICE COMMUNICATIONS

Radio Frequency Band	(Only WWAN SKU) • 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: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/34/38/39/40/41/42/43/48/66/71 • 3G: B1/B2/B4/B5/B8/B19 • 2G: 900/1800/850/1900 • Dual SIM/Dual Standby, VoLTE, Gigabit LTE-A, • 5G NR Sub-6 (NSA, SA), LTE/NR Carrier Aggregation • Supports private networking (LTE/5G) • 5G 2Tx support (n48/77/78/79)
GPS	(Only WWAN SKU) • GPS, GLONASS, Galileo, BeiDou, QZSS, Dual-Band • GNSS — concurrent L1/G1/E1/B1 (GPS/QZSS, GLONASS, Galileo, BeiDou) + L5/E5a/BDSB2a (GPS/QZSS, Galileo, BeiDou); a-GPS; supports XTRA

WIRELESS LAN

Radio	IEEE 802.11 a/b/g/n/ac/d/h/k/l/v/w/mc/ax 2x2 MU-MIMO; Wi-Fi™ 6E (802.11ax) Wi-Fi certified Wi-Fi™ 6E Certified Dual Band Simultaneous IPv4, IPv6
Data Rates	6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps 5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps 2.4 GHz: 802.11b/g/n/ax — 20 MHz 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-TLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD TC78 WWAN models only — EAP-SIM, EAP-AKA; WPA3 Enterprise 192-bit mode (GCMP256) - EAP-TLS; Enhanced Open (OWE)

WIRELESS PAN

Bluetooth	Class 2, Bluetooth v5.2
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WIRED LAN

Ethernet	Support (w/ Ethernet Cradle - 1Gbps)
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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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DATA CAPTURE

Scanning	(Default) SE4710 1D/2D Scan Engine (Optional) SE4100 SE4720 (White Illumination, Green Aimer) SE55 1D/2D Advanced Range Scan Engine
Camera	Rear – 16 MP AutoFocus; flash LED, PDAF, Torch mode+HDR; better low light performance; Front – 8MP fixed 5MP fixed (Optional) AR Core Certification
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Contactless payment support; (Optional) ECP1.0 and ECP2.0 polling support; Apple VAS certified

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)

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% non-condensing
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 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 protective boot per MIL-STD 810H
Tumble Spec	550 1.6 ft./0.5 m tumbles (Rugged boot) 550 3.3 ft./1.0 m tumbles optional protective boot
Sealing	IP68 and IP65, with battery 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)	+/-15kv air discharge +/-8kv direct discharge +/-8kv indirect discharge

SOFTWARE SOLUTIONS

BOS™	BOS™ -Provisioning; -Staging; -Kiosk; -Virtual Key; -BOS™ Keyboard; -VoIP; PTT; PTT Essential -EMM; -Wi-Fi Fine (WiFi analyze application) -Secure ID (Secure management solution)
3rd Party Solutions Integration	EMM: Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile PTT: ESChat, Zello, iMPPT, EveryTalk, AirPTT

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



Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl



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