

The Ultimate Ultra-rugged for Enterprise Mobility based on 5G

# S70



### 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



- Public Official
  - eCitation & Situational awareness
  - Communication and Collaboration
  - Parking & Traffic Law Enforcement
  - Identification Authentication
  - Patrol Mobile Solution

### 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

### 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 rugged device, Bluebird's S70 to experience brilliant specifications, which is the another level upgrade of the previous Bluebird device features. Due to the rugged design of S70, it has better durability than non-rugged devices with better features. Blue buttons on the sides of S70 makes the device to be more visible, and various cutting edge technologies are in S70 - camera, PTT key, display, etc.

## 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.

### 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

S70 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

S70 has the improved durability and ergonomic design and which makes it thinner, larger & stronger. If you drop it from a height of 3.05m / 10ft or drop it 2,000 times from a height of 1.0m / 3.3ft, it still works. It applied Gorilla Glass on the Touch Panel and Imager.

# Key Features

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## BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

### Cutting edge Battery technology

Bluebird's BOS™ Power Manager standard 5000 mAh and extended 7000 mAh batteries offer great power supply and long device working hour. S70 has the best battery capacity of the grade.

### High Solution Camera

Experience 16 MP integrated camera with Optical Image Stabilization(OIS). 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 SE4770/SE4720(Optional) 1D/2D scan engine or SE55 1D/2D scan engine for advanced scan range.

### Supportive microphone and speaker

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

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## 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.

### Simply check your boxes by pressing a button

S70 supports Time of Flight(ToF) sensor to check parcel dimensions quickly and easily to save your working time.

### 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.

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## 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.

### 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.

### Simply find your lost device

You can find lost device easily & fast with BOS Device Tracker, even the battery is discharged or off.

### 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 Snapdragon™ QC6490 octa-core, 2.7 GHz
Operating System	Android 12; Upgradeable to Android 16
Memory	6GB RAM/ 64GB UFS Flash 8GB RAM/ 128GB UFS Flash (Optional)

## PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	174 × 86.3 (Grip: 80.75) x 26 (Grip : 19.6)mm
Weight	340 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 5000mAh / 19.25 Watt hours; Extended capacity 7000mAh / 26.95 Watt hours; *Fast charging & Hot Swap battery mode (All SKUs)  (Optional) BLE Beacon Battery 5000mAh Qi compatible Wireless charging battery 5000mAh
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
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.
Voice and Audio	Three microphones with noise-cancellation; Vibrate alert; High-quality Dual speaker phone; 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

Radio Frequency Band	Worldwide - 5G FR1 : n1/2/3/5/7/8/12/13/14/20/25/26/28/29/38/40/41/48/66/71/77/78/79 - 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  Supports private networking (LTE/5G) Support CBRS (US B48, Private LTE)  Support 5G mmWave n257/258/260/261 (Optional)
GPS	(Only on WWAN SKUs) 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 (802.11ax); 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 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, EAP-PWD; WWAN models only — EAP-SIM, EAP-AKA; WPA3 Enterprise 192-bit mode (GCMP 256) — EAP-TLS; Enhanced Open (OWE)

## WIRELESS PAN

Bluetooth	Class 2, Bluetooth v5.2 and Secondary BLE for beaconing within BLE battery
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## WIRED LAN

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

VoIP / PTT

## DATA CAPTURE

**Scanning**  
SE4770 1D/2D Scan Engine  
SE4720 1D/2D Scan Engine (Optional)  
SE55 1D/2D Advanced Range Scan Engine (Optional)

**Camera**  
Rear – 16 MP AutoFocus; flash LED, PDAF, Torch mode+HDR; better low light performance; Optical image stabilization (OIS) (Optional)  
Time of Flight (ToF) Sensor (Optional)

Front – 8MP Fixed focus

(Optional)

Rear : 50 MP autofocus; flash LED, PDAF; Torch mode+HDR; Optical image stabilization (OIS)

**NFC**  
ISO 14443 Type A and B;  
ISO 15693 and FelCa cards;  
P2P mode and Card Emulation via Host;  
ECP1.0 and ECP2.0 polling support,  
Contactless payment support,  
Google Smart Tap Ready, Apple VAS certified

## SENSOR

**Light Sensor**  
Ambient Light  
Automatically adjusts display backlight brightness

**Other Sensors**  
Proximity, eCompass, accelerometer. Gyroscope, Pressure

## 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 10 ft./3.05 m drops to concrete at room temperature MIL-STD 810H

Multiple 8 ft./2.4 m drops to concrete over operating temperature -20°C to 50°C per MIL-STD 810H

**Tumble Spec**  
2000 3.3 ft./1.0 m tumbles, meets or exceeds IEC tumble specification

**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  
+/-8kc direct discharge  
+/-8kv indirect discharge

## SOFTWARE SOLUTIONS

**BOS™**  
BOS™  
-Provisioning;  
-Staging;  
-Kiosk;  
-Virtual Key;  
-BOS™ Keyboard;  
-VoIP ; PTT ; PTT Essential  
-EMM;  
-Wi-Fine (WiFi analyze application)  
-Secure ID (Secure management solution)

**3rd 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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