BLUEBIRD
A TSC Company

MOBILE COMPUTER
HF550X

Smartphone-style mobile computer that can increase work productivity with barcode scanner

01 **True smartphone-style with ergonomics design**

02 **Enterprise level mobile computer**

03 **More wireless connections**

04 **Support fingerprint functionality to enhance job security and support worker authentication**

05 Business Optimization Solution BOS™ Software

06 **Sufficient battery capacity for use without charging stress**

STRONG POINTS

OS
Android 10
(Upgradeable to Android 14

Performance
Octa-Core Processor

Wireless
Wifi,Bluetooth Support

Battery
3.85V / 4000 mAh

Drop Resistance
Multiple 1.2 m (4 ft) drop per MIL-STD 810G

Sealing
IP67 (WWAN)
IP54 (WiFi)

Display
5.45", HD+
(1440x720)

Extensions to Accessories
Rear Pogo, RFID Reader, Wearable, Trigger

RAIN ALLIANCE

Industry and applications

Distribution (Retail)
- Customer Engagement
- BOPIS (Online Purchase, Store Receipt)
- Store Shelf Management
- Backroom Management

Logistics warehouse
- Wear it
- Stock replenishment
- Shipping/Trucking

Customer service
- Order

Healthcare
- EMR/EHR
- Pharmacy Management

BOS™ Solution

- BOS™ Provisioning
- BOS™ Staging
- BOS™ Kiosk
- BOS™ Virtual Key
- BOS™ Keyboard
- BOS™ VoIP, PTT, PTT Essential
- BOS™ EMM
- BOS™ Wi-Fine™(WIFI analyze application)
- BOS™ SecureID

3rd Party Solutions Integration

- EMM : Airwatch, MobileIron, Mobicontrol, IBM Mass360, VMWare
- PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT

Bluebird maintenance service(up to 8 years)

- BluebirdCare™
- BluebirdCare™TCS
- Bluebird SecureCare™

BLUEBIRD
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Get real pocket-power with true smartphone-style ergonomics

Forget the notion that industrial mobile computers are big and heavy. With its beautiful design and compact pocket size and slim(11.65 mm thick), HF550X offers the best grip to reduce work fatigue.

Enterprise-class data capture

The HF550 is equipped with a 1D/2D scanner (dual action side scan trigger) that can capture barcodes quickly in any environment, and provides uninterrupted and reliable connection of various accessories through the interface port.

Supports wide range of wireless connections

2X2 MU-MIMO enables faster and more reliable Wi-Fi connectivity than wired, Bluetooth 5.0 supports connectivity to peripherals at a wider, faster speed with lower power. LTE is also available, ensuring connectivity to the outside world.

Powerful durability and lifecycle

HF550X is IP67 for rain or dusty use and has a 1.2m drop specification. In addition, unlike consumer smartphones with very short lifecycles, HF550X offers up to eight years(4+4) of maintenance service support to save on maintenance costs compared to commercial smartphones.

Supports fingerprint function for enhanced job security and authentication

HF550X provides fingerprint registration to enhance job security and facilitate authentication.

Business Optimization solution BOS ™ software support

Bluebird Business Optimizing Solutions(BOS™) is designed to help enterprise organizations from app development to terminal deployment for business performance and convenience.

Power every minute of every workday

With a 4000mAh battery available for 1.5 times the shift time, it reduces the business downtime caused by terminal charging.

SPECIFICATIONS

PERFPORMANCE CHARACTERISTICS

CPU	Qualcomm Snapdragon™ 660 octa -core, 2.2 GHz
Operating System	Android 10 ; Upgradeable to Android 14
Memory	4 GB RAM / 32 GB UFS 4 GB RAM / 64 GB UFS (Optional)

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D)	154.4 x 74.8 x 11.65mm
W eight	205g
Display	5.45″ HD+ (1440 x 720), TFT -IPS
Imager Window	Corning® Gorilla® Glass
Touchpanel	Capacitive multi-touch / Stylus, Glove, Wet
Backlight	LED backlight
Power	Standard Battery 3.85V, 4000mAh 15.4 Watt Hours, BoS™ Power Manager Station
Expansion Slot	MicroSD 32GB SDHC, up to 128GB SDXC
SIM / SAM	Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM /1 Micro SD) - 2'nd Nano SIM is supported by micro SD Card Slot
Interface	USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin connector
Notification	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad and Enterprise Keyboard power button; volume up/down buttons dual-action side scan triggers
Voice and Audio	Dual noise-cancelling microphones; High-quality speaker phone, 3.5mm headset jack
PTT Hot Key	Support – available Active Key

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
GPS	(for WWAN 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 IPv4, IPv6, Wi-Fi™ certified 2x2 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); WPA/WPA2 Enterprise (TKIP, and AES) - EAPTTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PE APv0- MSCHAPv2, PE APv1-EAP-GTC, EAP Fast and LEAP

WIRELESS PAN

Bluetooth	Bluetooth 5.0 BLE , Class 2 Bluetooth Low Energy (BLE)

COMMUNICATION AND MESSAGING

VoIP / PTT

DATA CAPTURE

Scanning	1D/2D Imager Barcode
Camera	Rear : 13MP Autofocus with flash Front : 5MP Fixed focus
NFC	ISO 14443 Type A and B; F; FeliCa, and ISO 15693 cards, MiFare
RFID	(Optional- WLAN SKU Only) UHF RFID Read Range : up to 50cm

SENSOR

Light Sensor	Ambient Light
Motion Sensor	Proximity, Gyro, Accelerometer, E-Compass

USER ENVIRONMENT

Operating Temp	-10°C to 50°C / 14°F to 122°F
Storage Temp	-40°C to +70°C / -40°F to +158°F
Humidity	95% non-condensing
Drop Spec	1.2m / 4ft. drop per MIL-STD 810G With Protective boot : 5ft/1.5m per MIL-STD-810G to concrete across operating temperature range
Tumble Spec	300 tumbles, 1.6 ft./0.5 m at room temperature without protective boot 500 tumbles, 1.6 ft./0.5 m at room temperature with protective boot
Sealing	WiFi SKU : IP54 WWAN SKU : IP67
Vibration	4G peak, 5 Hz to 2 kHz, 1 hour duration per axis
Thermal Shock	-40° C to 70° C / -40° F to 158° F rapid transition 10 cycles (1 cycle = 1.25 hours at -40°C and 1.25 hours at 70°C)
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge

ACCESSORIES

In-box	SIM tooling pin
Additional	1 or 4 slot charging cradle 1 or 5 slot ethernet cradle Wrist Strap / Neck Strap, Protective Film Trigger Handle UHF RFID Reader Sled (w/RFR90x) Rugged Boot

* Specification subject to change without notice