IDCR@FT
RFID & NFC EXPERTS

UHF | HF - Handheld Reader
TSC - Bluebird HF550X

- ISO 14443A/B, FeliCa, ISO 15693 (optional UHF)
- Qualcomm Octa-Core Up to 2.2GHz.
- 5.45" HD+ touchscreen. TFT IPS
- Integrated 4000mAh battery
- Android 10 OS (upgradeable to Android 14)

UHF | NFC - Handheld Reader
Smartphone mobile computer

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.

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. 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.

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.

HF550X provides fingerprint registration to enhance job security and facilitate authentication. Bluebird Business Optimizing Solutions(BOS™) is designed to help enterprise organizations from app development to terminal deployment for business performance and convenience.

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

Common Applications

- Retail
- Warehouse Management
- Healthcare
- Customer service
- Transportation & Logistics

TECHNICAL SPECIFICATIONS

Performance Characteristics

CPU	Qualcomm Snapdragon 660 Octa-Core Up to 2.2GHz
Operating System	Android 14 (GMS/Non - GMS) (Planned to be upgraded to Android 16, 18)
Memory	4 GB RAM / 32 GB UFS 4 GB RAM / 64 GB UFS (Optional)

Physical Characteristics

CPU Dimensions (L x W x D)	154.4 x 74.8 x 11.65 mm
Weight	205 g
Display	5.45 inch, 1440x720, TFT-IPS
Imager Window	Capacitive multi touch
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 32 GB SDHC, up to 128GB SDXC
SIM / SAM	Hybrid Dual SIM Slot (2 Nano SIM or 1 Nano SIM / 1 MicroSD) 2nd Nano SIM is supported by microSD Card Slot
Interface	USB Type C Connector (USB 2.0) Docking Connector (Charging) Rear 10-pin connector
Notification	Audible tone, multi-color LEDs; Vibrations
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, 3.5 mm headset jack
PTT Hot Key	Support - available

Sensor

Light Sensor	Ambient Light
Motion Sensor	Proximity , eCompass, Accelerometer, Gyroscope

Wireless WAN Data and Voice Communications

Radio Frequency Band	(Optional) Worldwide 4G: B1-B8, B18-20, 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)

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 50 cm

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.	+/-10kVdc air discharge +/-8kVdc direct discharge
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	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge