

Touch Mobile Computer with Fingerprint Scanner



VF550 iBio

The right choice for your business

- Designed for Enterprises and Experts
- Seamless Communication in Any Work Environment
- Light, Comfortable Design to Carry Around
- Strong Security via Bluebird SecureCare™
- An Enterprise-class Performance at a Reasonable Cost
- A Variety of Accessories for Enterprises
- Various BOS™ Software Available



<p>OS Android 9 and Android 10 Upgradeable through Android 11</p>	<p>Performance Octa-Core Processor</p>	<p>Wireless Wifi, Bluetooth Support</p>	<p>Battery User Replaceable</p>	<p>Scanning 1D & 2D Imager (Barcode angle 30°)</p>	<p>Encryption Algorithm AES256</p>
<p>Sealing IP67 (WWAN) IP54 (WiFiOnly)</p>	<p>Fingerprint Scanner</p>	<p>Camera 13MP Autofocus with flash</p>	<p>Display 5.45" HD + (1440x720)</p>	<p>Drop Resistance Multiple 1.2 m (4 ft) drops to tile over concrete at room temperature</p>	

Key Features

Design for your work

The product is optimized for your work at enterprises based on built-in barcode reader and waterproof/dustproof ratings.

Convenient side buttons

The product's dual-action side scan triggers enable you to conveniently scan a barcode. You can use the product for various usages including PTT hot-key.

A variety of accessories for enterprises

We provide 1 or 4 slot charging cradle, trigger handle, handstrap, stylus holder, etc. for your convenient use of the product and you can use the product along with the optical fingerprint module add-on and the UHF RFID reader sled (w/RFR90x).

Slim, refined design

Its smartphone-like exterior and Android UI allow anyone to use it easily. Its light weight reduces your fatigue during work.

Reliable security management

It provides an environment where your company can safely operate the device via Bluebird SecureCare™ which is an Android security service program of Bluebird.

Enterprise-class device at a reasonable cost

The product offers all essential features for SMEs, while allowing you to build a mobile environment of your company at a much lower cost than the existing full-rugged devices.

Industry & Applications

Retail

- Customer Engagement
- BOPIS (Buy online, Pick up in store)
- Shelf Management
- Backroom Management
- Receiving
- Stocking
- Shipping

Warehouse Management

- Receiving
- Stocking
- Shipping

Hospitality

- Order Taking

BOS™ Solutions & Software

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

3rd Party Solutions Integration

- EMM : Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile
- PTT : MCPTT, ESChat, Zello, IMPTT, EveryTalk, AirPTT



Accurate Scan
Stringent Security

Optical Fingerprint Module



Specifications

PERFORMANCE CHARACTERISTICS

CPU	1.8 GHz Octa-Core Processor 2.2 GHz Octa-Core Processor (Optional)
OS	Android 9 and Android 10 - OS upgradeable through Android 11
Memory	2GB RAM / 16GB Flash 3GB RAM / 32GB Flash (Optional)

PHYSICAL CHARACTERISTICS

Dimension (L x W x D)	158.26 x 75.8 x 14.9 mm
Weight	251g
Display	5.45" HD+ (1440 x 720), TFT-IPS
Touch Panel	Corning® Gorilla® Glass 3 Capacitive multi-touch (Stylus, Glove, Wet)
Backlight	LED backlight
Power	User replaceable battery 3.85V / 4350 mAh BOS™ PowerManager 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) – 1 Nano SIM is supported by micro SD Card Slot Single SAM (Optional)
Interface	USB Type C Connector (USB 2.0) Docking Connector (Charging)
Notification	Audible tone; multi-color LEDs; vibration
Keypad & Button	On-screen keypad and Enterprise Keyboard Power button; Volume up/down buttons; Dual-action side scan triggers
Voice & Audio	Dual noise-cancelling microphones; High-quality speaker phone; 3.5mm headset jack
PTT Hot Key	Support - available dual-action side scan triggers

WIRELESS PAN

Bluetooth	BT5.0 BLE, Class 2
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WIRELESS LAN

Radio	802.11 a/b/g/n/ac/d/h/i/k/r/w
Data Rates	5GHz: 802.11a/n/ac — up to 500 Mbps; 2.4GHz: 802.11b/g/n — up to 144 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 WAN DATA AND VOICE COMMUNICATIONS

Radio Frequency Band	(Optional) EMEA, Korea, Thailand, India - LTE FDD: B1/B3/B5/B7/B8/B20 - LTE TDD: B38/B40/B41 - WCDMA: B1/B5/B8 - GSM/EDGE : B3/B8 Latin America, Australia, ANZ, Taiwan - LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 - LTE TDD: B40 - WCDMA: B1/B2/B5/B8 - GSM/EDGE : B2/B3/B5/B8 Japan - LTE FDD: B1/B3/B8/B18/B19/B26 - LTE TDD: B41 - WCDMA: B1/B6/B8/B19 North America - LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 - WCDMA: B2/B4/B5 China - LTE FDD: B1/B3/B5/B8 - LTE TDD: B38/ B39/ B40/ B41 - WCDMA: B1/ B8 - GSM/EDGE : B3/ B8
GPS	(for WWAN only) A-GPS, GLONASS, BEIDOU, Galileo

WIRED LAN

Ethernet	Support (w/ Ethernet Cradle)
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DATA CAPTURE

Scanning	1D & 2D Imager (Barcode angle 30°) Scan range (Code 39 barcode) - 20 Mil : 2.0 inch to 30.0 inch (5.08cm to 76.2cm) - 40 Mil : 3.3 inch to 8.8 inch (8.4cm to 22.4cm) Digimarc support
Camera	Rear – 13MP Autofocus with flash (PDAF Support, F2.0)
NFC	ISO 14443 Type A and B; F; FeliCa, and ISO 15693 cards, MiFare

SENSOR

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



Specifications (Continued)

USER ENVIRONMENT	
Operating Temp.	-20°C to 50°C / -4°F to 122°F
Storage Temp.	-30°C to +70°C / -22°F to +158°F
Humidity	95% non-condensing
Drop Spec	Multiple 1.2 m (4 ft) drops to tile over concrete at room temperature Multiple 6 ft./1.8m drops to concrete with the rugged boot accessory per MIL STD 810G
Tumble Spec	300 tumbles, 1.6 ft./0.5 m
Sealing	WiFi SKU : IP54 WWAN SKU: IP67
Vibration	4G peak, 5Hz to 2kHz, 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
FINGERPRINT SCANNER	
Certifications	MINEX & FIPS 201 compliant algorithms, FBI PIV and FBI Mobile ID FAP20 compliant
Security	FIPS 140-2 Level 3 compliant, Data is encrypted
Sensor Type	OPTICAL – BM-Slim2S, Suprema
Feature Extraction	Proprietary, ISO 19794-2, ANSI 378
Fake Finger Detection	Fake Finger Detection
Encryption Algorithm	AES256

SW SOLUTION	
BOS™	- Provisioning; - Staging; - Kiosk; - Virtual Key; - Enterprise Keyboard; - VoIP; PTT; PTT Express - EMM; - Wi-Fine™ (WiFi analyze application) - Secure ID (Security Management Solution)
3'rd Party Solutions Integration	- EMM : Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile - PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT

ACCESSORIES	
Accessories	1 or 4 Slot Charging cradle (Includes a bay for Spare Battery Charging.) 1 or 4 Slot Ethernet cradle (Includes a bay for Spare Battery Charging.) Handstrap & Stylus Holder / Stylus Soft Holder Protective Film Trigger Handle UHF RFID Reader Sled (w/RFR900) Optical Fingerprint Rugged Boot (TBD) Physical Keypad (TBD) Loud Speaker (TBD)

※ Specifications are subject to change without notice and some features may vary by region.