

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><b>OS</b> Android 9 and Android 10 Upgradeable through Android 11</p>	<p><b>Performance</b> Octa-Core Processor</p>	<p><b>Wireless</b> Wifi, Bluetooth Support</p>	<p><b>Battery</b> User Replaceable</p>	<p><b>Scanning</b> 1D &amp; 2D Imager (Barcode angle 30°)</p>	<p><b>Encryption Algorithm</b> AES256</p>
<p><b>Sealing</b> IP67 (WWAN) IP54 (WiFi Only)</p>	<p><b>Fingerprint Scanner</b></p>	<p><b>Camera</b> 13MP Autofocus with flash</p>	<p><b>Display</b> 5.45" HD+ (1440x720)</p>	<p><b>Drop Resistance</b> 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™ Keyboard
- BOS™ VoIP, PTT, PTT Essential
- 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

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

## PHYSICAL CHARACTERISTICS

<b>Dimension (L x W x D)</b>	158.26 x 75.8 x 14.9 mm
<b>Weight</b>	251g
<b>Display</b>	5.45" HD+ (1440 x 720), TFT-IPS
<b>Touch Panel</b>	Corning® Gorilla® Glass 3 Capacitive multi-touch (Stylus, Glove, Wet)
<b>Backlight</b>	LED backlight
<b>Power</b>	User replaceable battery 3.85V / 4350 mAh BOS™ PowerManager Station
<b>Expansion Slot</b>	MicroSD 32GB SDHC, up to 128GB SDXC
<b>SIM / SAM</b>	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)
<b>Interface</b>	USB Type C Connector (USB 2.0) Docking Connector (Charging)
<b>Notification</b>	Audible tone; multi-color LEDs; vibration
<b>Keypad &amp; Button</b>	On-screen keypad and BOS™ Keyboard Power button; Volume up/down buttons; Dual-action side scan triggers
<b>Voice &amp; Audio</b>	Dual noise-cancelling microphones; High-quality speaker phone; 3.5mm headset jack
<b>PTT Hot Key</b>	Support - available dual-action side scan triggers

## WIRELESS PAN

<b>Bluetooth</b>	BT5.0 BLE, Class 2
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## WIRELESS LAN

<b>Radio</b>	802.11 a/b/g/n/ac/d/h/i/k/r/w
<b>Data Rates</b>	5GHz: 802.11a/n/ac — up to 500 Mbps; 2.4GHz: 802.11b/g/n — up to 144 Mbps
<b>Security and Encryption</b>	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

<b>Radio Frequency Band</b>	(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
<b>GPS</b>	(for WWAN only) A-GPS, GLONASS, BEIDOU, Galileo

## WIRED LAN

<b>Ethernet</b>	Support (w/ Ethernet Cradle)
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## DATA CAPTURE

<b>Scanning</b>	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
<b>Camera</b>	Rear – 13MP Autofocus with flash ( PDAF Support, F2.0 )
<b>NFC</b>	ISO 14443 Type A and B; F; FeliCa, and ISO 15693 cards, MiFare

## SENSOR

<b>Light Sensor</b>	Ambient Light
<b>Motion Sensor</b>	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; - BOS™ Keyboard; - VoIP; PTT; PTT Essential - 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.