











# VF550

## 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><br/>Android 9;<br/>Upgradable to<br/>Android 10</p> |  <p><b>Performance</b><br/>Octa-Core Processor</p>                  |  <p><b>Wireless</b><br/>Wifi, Bluetooth<br/>Support</p>   |  <p><b>Battery</b><br/>User Replaceable</p>           |  <p><b>Scanning</b><br/>1D &amp; 2D Imager<br/>(Barcode angle 30°)</p>   |
|  <p><b>Sealing</b><br/>IP67 (WWAN)<br/>IP54 (WiFi Only)</p>     |  <p><b>Operation Temp</b><br/>-20°C to 50°C<br/>-4°F to 122°F</p> |  <p><b>Camera</b><br/>13MP Autofocus<br/>with flash</p> |  <p><b>Display</b><br/>5.45" HD+<br/>(1440x720)</p> |  <p><b>Drop Resistance</b><br/>Multiple 1.2 m (4 ft) drops to<br/>tile over concrete at room<br/>temperature</p> |

### 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

## 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.

# Specifications

## PERFORMANCE CHARACTERISTICS

|               |   |
|---------------|---|
| <b>CPU</b>    | 1.8 GHz Octa-Core Processor<br>2.2 GHz Octa-Core Processor (Optional) |
| <b>OS</b>     | Android 9;<br>Upgradeable to Android 10                               |
| <b>Memory</b> | 3GB RAM / 32GB Flash<br>2GB RAM / 16GB 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<br>Capacitive multi-touch (Stylus, Glove, Wet)  |
| <b>Backlight</b>             | LED backlight   |
| <b>Power</b>                 | User replaceable battery<br>3.85V / 4350 mAh<br>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<br>Single SAM (Optional) |
| <b>Interface</b>             | USB Type C Connector (USB 2.0)<br>Docking Connector (Charging)  |
| <b>Notification</b>          | Audible tone; multi-color LEDs; vibration   |
| <b>Keypad &amp; Button</b>   | On-screen keypad and Enterprise Keyboard<br>Power button;<br>Volume up/down buttons;<br>Dual-action side scan triggers                |
| <b>Voice &amp; Audio</b>     | Dual noise-cancelling microphones;<br>High-quality speaker phone;<br>3.5mm headset jack   |
| <b>PTT Hot Key</b>           | Support<br>- available dual-action side scan triggers   |

## WIRELESS PAN

|                  |                    |
|------------------|--------------------|
| <b>Bluetooth</b> | BT5.0 BLE, Class 2 |
|------------------|--------------------|

## 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;<br>2.4GHz: 802.11b/g/n — up to 144 Mbps   |
| <b>Security and Encryption</b> | WEP (40 or 104 bit);<br>WPA/WPA2 Personal (TKIP, and AES);<br>WPA/WPA2 Enterprise (TKIP, and AES)<br>- EAPTTLS (PAP, MSCHAP, MSCHAPv2),<br>EAP-TLS, PE APv0- MSCHAPv2,<br>PE APv1-EAP-GTC, EAP Fast and LEAP |

## WIRELESS WAN DATA AND VOICE COMMUNICATIONS

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

## WIRED LAN

|                 |                              |
|-----------------|------------------------------|
| <b>Ethernet</b> | Support (w/ Ethernet Cradle) |
|-----------------|------------------------------|

## DATA CAPTURE

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

|                                      |  |
|--------------------------------------|--|
| <b>Operating Temp.</b>               | -20°C to 50°C / -4°F to 122°F  |
| <b>Storage Temp.</b>                 | -30°C to +70°C / -22°F to +158°F   |
| <b>Humidity</b>                      | 95% non-condensing   |
| <b>Drop Spec</b>                     | Multiple 1.2 m (4 ft) drops to tile over concrete at room temperature<br>Multiple 6 ft./1.8m drops to concrete with the rugged boot accessory per MIL STD 810G |
| <b>Tumble Spec</b>                   | 300 tumbles, 1.6 ft./0.5 m   |
| <b>Sealing</b>                       | WiFi SKU : IP54<br>WWAN SKU: IP67  |
| <b>Vibration</b>                     | 4G peak, 5Hz to 2kHz, 1 hour duration per axis   |
| <b>Thermal Shock</b>                 | -40°C to 70°C / -40°F to 158°F rapid transition<br>10 cycles (1 cycle = 1.25 hours at -40°C and 1.25 hours at 70°C)  |
| <b>Electrostatic Discharge (ESD)</b> | +/-15kVdc air discharge<br>+/-8kVdc direct discharge<br>+/-8kVdc indirect discharge  |

## SW SOLUTION

|   |  |
|---|--|
| <b>BOS™</b>                             | <ul style="list-style-type: none"> <li>- Provisioning;</li> <li>- Staging;</li> <li>- Kiosk;</li> <li>- Virtual Key;</li> <li>- Enterprise Keyboard;</li> <li>- VoIP; PTT; PTT Express</li> <li>- EMM;</li> <li>- Wi-Fine™ (WiFi analyze application)</li> <li>- Secure ID (Security Management Solution)</li> </ul> |
| <b>3'rd Party Solutions Integration</b> | <ul style="list-style-type: none"> <li>- EMM : Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile</li> <li>- PTT : ESChat, Zello, IMPTT, EveryTalk, AirPTT</li> </ul>   |

## ACCESSORIES

|                    |   |
|--------------------|---|
| <b>Accessories</b> | <ul style="list-style-type: none"> <li>1 or 4 Slot Charging cradle<br/>(Includes a bay for Spare Battery Charging.)</li> <li>1 or 4 Slot Ethernet cradle<br/>(Includes a bay for Spare Battery Charging.)</li> <li>Handstrap &amp; Stylus Holder / Stylus</li> <li>Soft Holder</li> <li>Protective Film</li> <li>Trigger Handle</li> <li>UHF RFID Reader Sled (w/FR900)</li> <li>Optical Fingerprint</li> <li>Rugged Boot (TBD)</li> <li>Physical Keypad (TBD)</li> <li>Loud Speaker (TBD)</li> </ul> |
|--------------------|---|

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