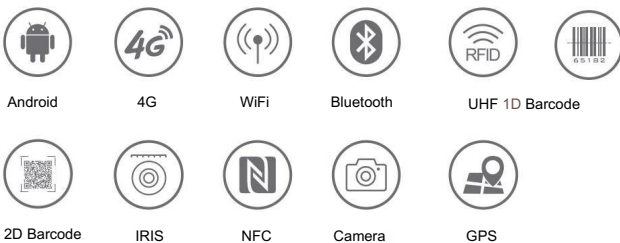


# LRH500

with short range UHF RFID



## Mobile Computer with short range UHF RFID



The LRH500 is an Android rugged mobile computer. It can be configured with internal UHF module with 1 dBi circularly polarized antenna. With its powerful processor and wireless connections, you can find this easy-to-deploy device an exceptionally valuable helper to increase working efficiency and productivity in retail, logistics and healthcare.



# Specification

## Performance

|                  |  |
|------------------|--|
| CPU              | Cortex-A53 Octa-core 2.5 GHz                     |
| RAM+ROM          | 3 GB+ 32 GB/4GB + 64 GB                          |
| Expansion        | Supports up to 128 GB Micro SD card              |
| Operating System | Android 8.1; Soti MobiControl, SafeUEM supported |

## Communication

|                |  |
|----------------|--|
| WLAN           | IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna |
| WWAN (China)   | 2G: 900/1800 MHz   |
|                | 3G: WCDMA: B1,B8   |
|                | CDMA2000 EVDO: BCO   |
|                | TD-SCDMA: B34.B39  |
| WWAN (Europe)  | 4G: B1 ,B3,B5,B8,B34,B38,B39,B40,B41                       |
|                | 2G: 850/900/1800/1900 MHz                                  |
|                | 3G: B1,B2,B4,B5,B8   |
| WWAN (America) | 4G: B1,B3,B5,B7,B8,B20,B40                                 |
|                | 2G: 850/900/1800/1900 MHz                                  |
| WWAN (Others)  | 3G: B1,B2,B4,B5,B8   |
|                | 4G: B2,B4,B7,B12,B17,B25,B66                               |
| Bluetooth      | Bluetooth v2.1+EDR,3.0+HS,v4.1+HS                          |
| GNSS           | GPS/AGPS, GLONASS, BeiDou; internal antenna                |

## Physical Characteristics

|                |  |
|----------------|--|
| Dimensions     | 164.2 x 78.8 x 17.5 mm / 6.46 x 3.10 x 0.69 in.                          |
| Weight         | <321 g/11.32oz.  |
| Display        | 5.2" IPS FHD 1920 x 1080   |
| Touch Panel    | Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported |
| Power          | Main battery: Li-ion, rechargeable, 5000mAh                              |
|                | Standby: over 350 hours  |
|                | Continuous use: over 12 hours (depending on user environment)            |
|                | Charging time: 3-4 hours (with standard adaptor and USB cable)           |
| Expansion Slot | 1 slot for SIM card, 1 slot for SIM or TF card                           |
| Interfaces     | USB 2.0 Type-C, OTG, TypeC headphones supported                          |
| Audio          | Speaker, 2 microphones   |
| Keypad         | 4 front keys, 1 power key, 2 scan keys, 1 multifunctional key            |
| Sensors        | Gravity sensor, light sensor, proximity sensor, vibration motor          |

## Developing Environment

|          |                          |
|----------|--------------------------|
| Language | Java                     |
| Tool     | Eclipse / Android Studio |

## User Environment

|                      |   |
|----------------------|---|
| Operating Temp.      | -4 °F to 122 °F / -20 °C to 50 °C   |
| Storage Temp.        | -40 °F to 158 °F / -40 °C to 70 °C  |
| Humidity             | 5% RH - 95% RH non condensing   |
| Drop Specification   | Multiple 1.8 m / 5.9 ft. drops (at least 20 times) on concrete across the operating temperature range |
| Tumble Specification | 1000 x 0.5m /1.64 ft. drop at room temperature  |
| Sealing              | IP65 per IEC sealing specifications   |
| ESD                  | ±15 KV air discharge, ±6 KV conductive discharge  |

Notice: Product specifications are subject to change without prior notice. / Update Date: 2020-07-09

**Techsolutions®**

Techsolutions (Pty) Ltd.

Address: 9F 1219 Cobham Ave, Queenswood, 0186, Pretoria, South Africa  
Email: [sales@techsolutions.co.za](mailto:sales@techsolutions.co.za) Web: <http://www.techsolutions.co.za>

## Data Collection

### UHF RFID

|           |   |
|-----------|---|
| Frequency | 865-868 MHz / 920-925 MHz / 902-928 MHz |
| Protocol  | EPC C1 GEN2 / ISO18000-6C               |
| Antenna   | Circular polarization (1 dBi)           |
| Power     | 1 W (+19 dBm to +30 dBm adjustable)     |
| R/W range | 3 m                                     |

\* Ranges and rates depend on tags and environment

### Camera

|                         |                            |
|-------------------------|----------------------------|
| Rear Camera             | 13 MP Autofocus with flash |
| Front Camera (optional) | 5 MP camera                |

### NFC

|           |   |
|-----------|---|
| Frequency | 13.56 MHz                                     |
| Protocol  | ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc. |
| Chips     | M1 card (S50, S70), CPU card, NFC tags, etc.  |
| Range     | 2-4 cm  |

### Barcode Scanning (optional)

|                   |   |
|-------------------|---|
| 1D Linear Scanner | Zebra: SE965; Honeywell: N4313  |
| 1D Symbologies    | UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.  |
| 2D Imager Scanner | Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603   |
| 2D Symbologies    | PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc. |

### Iris (optional)

|          |                                 |
|----------|---------------------------------|
| Rate     | < 150 ms                        |
| Range    | 20-40 cm                        |
| FAR      | 1/10000000                      |
| Protocol | ISO/IEC19794-6, GB/T 20979-2007 |

### Accessories

|          |                                      |
|----------|--------------------------------------|
| Standard | AC Adaptor, USB Cable, Lanyard, etc. |
| Optional | Cradle, Holster, etc.                |

\* For detailed specification, please check Accessory Guide.

