



## ST4-GUN RFID READER

The ST4-GUN mobile RFID reader is equipped with a 2.0GHz octa-core ARM® Cortex processor and runs on Android 13, it has a powerful UHF RFID reader (up to 18 meters) for equipment/stock inventory or long-distance unit identification applications. Optional 1D/2D barcode reader

### Key features

- Android 13
- Powerful processor (Cortex ARM® 2.0GHz octa-core)
- Long range UHF RFID reader, Impinj R2000 chip, range up to 18 meters
- 13.56MHz NFC RFID reader
- 1D/2D barcode scanner (optional)
- IP67 robustness level, withstands a fall from a height of 1.5m

| SPECIFICATIONS             |                                                                                                                                        |                                                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHYSICAL CHARACTERISTICS   |                                                                                                                                        |                                                                                                                                                                                                      |
| Dimension                  | 171mm(H)x81mm(W)x20.4mm(D)±2 mm(without the pistol grip and UHF shield)                                                                |                                                                                                                                                                                                      |
| Weight                     | Net Weight :600g (including battery&wrist strap)                                                                                       |                                                                                                                                                                                                      |
| Display                    | Tough 5.5 in. TFT-LCD(720x1440)touch screen with backlight                                                                             |                                                                                                                                                                                                      |
| Backlight                  | LED backlight                                                                                                                          |                                                                                                                                                                                                      |
| Expansions                 | 2 PSAM, 2 SIM, 1 TF                                                                                                                    |                                                                                                                                                                                                      |
| Battery                    | Rechargeable li-ion polymer, 3.8V, 7200mAh                                                                                             |                                                                                                                                                                                                      |
| PERFORMANCE CHARACTERSTICS |                                                                                                                                        |                                                                                                                                                                                                      |
| CPU                        | Cortex ARM® 2.0GHz octa-core                                                                                                           |                                                                                                                                                                                                      |
| Operating System           | Android 13.0                                                                                                                           |                                                                                                                                                                                                      |
| Storage                    | 3GB RAM/32GB ROM or 4GB RAM/64GB ROM, MicroSD(max 256GB expansion)                                                                     |                                                                                                                                                                                                      |
| USER ENVIRONMENT           |                                                                                                                                        |                                                                                                                                                                                                      |
| Operating Temp.            | -20℃ to 50℃                                                                                                                            |                                                                                                                                                                                                      |
| Storage Temp.              | -20℃ to 70℃                                                                                                                            |                                                                                                                                                                                                      |
| Humidity                   | 5%RH to 95%RH(non-condensing)                                                                                                          |                                                                                                                                                                                                      |
| Drop Specifications        | 5ft./1.5 m drop to concrete across the operating temperature range                                                                     |                                                                                                                                                                                                      |
| Sealing                    | IP65, IEC compliance                                                                                                                   |                                                                                                                                                                                                      |
| ESD                        | ±15kv air discharge, ±8kv direct discharge                                                                                             |                                                                                                                                                                                                      |
| DEVELOPMENT ENVIRONMENT    |                                                                                                                                        |                                                                                                                                                                                                      |
| SDK                        | Handheld-Wireless Software Development Kit                                                                                             |                                                                                                                                                                                                      |
| Language                   | Java                                                                                                                                   |                                                                                                                                                                                                      |
| Environment                | Android Studio or Eclipse                                                                                                              |                                                                                                                                                                                                      |
| DATA COMMUNICATION         |                                                                                                                                        |                                                                                                                                                                                                      |
| WWAN                       | TDD-LTE Band 38, 39, 40, 41; FDD-LTE Band 1, 2, 3, 4, 5,7,8,12, 17, 20; WCDMA(850/1900/2100MHz); GSM/GPRS/Edge (850/900/1800/1900MHz); |                                                                                                                                                                                                      |
| WLAN                       | 2.4GHz/5.0GHz Dual Frequency, IEEE 802.11 a/b/g/n/ac                                                                                   |                                                                                                                                                                                                      |
| WPAN                       | Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.2                                                                            |                                                                                                                                                                                                      |
| GPS                        | GPS(embedded A-GPS), accuracy of 5 m                                                                                                   |                                                                                                                                                                                                      |
| DATA CAPTUER               |                                                                                                                                        |                                                                                                                                                                                                      |
| BARCODE READER(OPTIONAL)   |                                                                                                                                        |                                                                                                                                                                                                      |
| 2D Barcode                 | 2D CMOS Imager                                                                                                                         | Honeywell N5703 2D Scan Engine/ Newland NLS-CM60/Newland NLS-N1                                                                                                                                      |
|                            | Symbologies                                                                                                                            | PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QRcode, Aztec, MaxiCode, Postal Codes, US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal. etc. |
| COLOR CAMERA               |                                                                                                                                        |                                                                                                                                                                                                      |
| Resolution                 | Rear 13 megapixel, front 5.0 megapixel                                                                                                 |                                                                                                                                                                                                      |

|                         |                                                           |                                     |
|-------------------------|-----------------------------------------------------------|-------------------------------------|
| Lens                    | Auto-focus with LED flash                                 |                                     |
| RFID READER(OPTIONAL)   |                                                           |                                     |
| RFID NFC                | Frequency                                                 | 13.56MHz                            |
|                         | Protocol                                                  | ISO 14443A&15693, NFC-IP1, NFC-IP2  |
|                         | R/W Range                                                 | 2cm to 5cm                          |
| RFID UHF                | Frequency                                                 | 865~868MHz or 920~925MHz            |
|                         | Protocol                                                  | EPC C1 GEN2/ISO 18000-6C            |
|                         | Antenna Gain                                              | Circular antenna (4dBi)             |
|                         | R/W Range                                                 | 18m(tags and environment dependent) |
| PSAM SECURITY(OPTIONAL) |                                                           |                                     |
| Protocol                | ISO 7816                                                  |                                     |
| Baudrate                | 9600, 19200, 38400,43000, 56000, 57600, 115200            |                                     |
| Slot                    | 2 slots(maximum)                                          |                                     |
| ACCESSORIES             |                                                           |                                     |
| Standard                | 1xPower Supply; 1xLithium Polymer Battery; 1xType-C cable |                                     |
| Optional                | Cradle                                                    |                                     |