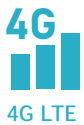


MCA Series

MCA0556



5.5" Commercial Grade Android Mobile Tablet PC



- 5.5" Android 11.0 System with GMS
- Qualcomm® Snapdragon™ 662 Octa Core
- 5200mAh Capacity, Li-ion Battery (Removable)
- 2G, 3G, 4G LTE
- IP65, 1.8m Drop Test
- Support Fingerprint, UHF RFID Module

Logistics
ManagementWarehouse
OptimizationProcess
SupervisionInventory
CheckingAsset
Management

Specification

MCA0556

Display

| | |
|--------------|---|
| Display type | 5.5" IPS |
| Resolution | 1440 x 720 |
| Brightness | 450 nits |
| Touch Panel | 5 Points Projected Capacitive Touch Panel |

Main System

| | |
|------------------------|---|
| CPU | Qualcomm® Snapdragon™ 662 Octa Core |
| Memory | 3GB |
| Storage | 32GB |
| OS Support | Android 11 |
| Developing Environment | SDK: Supported Language: Java Tool: Eclipse / Android Studio |
| Communication | WLAN: 802.11 a/b/g/n/ac/d/e/h/i/k/r/v (2.4G + 5G dual-band WiFi) WWAN: 4G Bluetooth: 5.1 GNSS: GPS/AGPS, GLONASS, BeiDou, Galileo; Internal Antenna |
| Card Slot | 1 x Nano SIM Card, 1 x Nano SIM or TF Card |
| Expansion | Supports up to 128 GB Micro SD card |
| Interface | USB 3.1, Type-C, OTG, Extended Thimble |

Physical

| | |
|--------------------|---|
| Speaker | 1 x Speaker |
| Microphone | 2 x Microphone |
| Sensor | Gravity sensor, Proximity sensor, Light sensor, Accelerometer sensor, Vibration motor |
| Camera | Rear: 13MP Camera with LED Light |
| Module | NFC Module Barcode Scanner Capacitive Fingerprint Module (Optional) Internal UHF RFID Module (Optional) External UHF RFID Reader (Optional) Volume Measurement Module (Optional) |
| Battery | 5200mAh Capacity, Li-ion Battery (Removable) |
| Using Time | Over 12hrs (Depending on User Behavior / Environment) |
| Power Input | AC 100 - 240V |
| Power Adapter | DC 5V/2A |
| Keypad | 1 power key, 2 volume keys, 2 scan keys, 1 user-defined key |
| Standard Accessory | 1 x Power Adapter (5V/2A) 1 x USB Type-C Cable 1 x Docking Station 1 x Power Adapter (for Docking Station) 1 x Hand Strap |
| Product Dimension | 160 x 76 x 15.5 mm |
| Product Weight | 287g |
| Box Dimension | 197 x 112 x 77 mm |
| Box Weight | 630g |

Environment

| | |
|-----------------------|---------------------------|
| Rugged Feature | IP65, 1.8m Drop Test |
| Operating Temperature | -20°C to 50°C |
| Storage Temperature | -40°C to 70°C |
| Humidity | 5% ~ 95% (non-condensing) |

Overview



Optional Modules



External UHF RFID Reader (With Back Clip)



External UHF RFID Reader (With Sled Reader)

Optional Accessories



ABAT055 Removable Battery



ACHAB55 Battery Charger (4 slots, for Main Battery)



ATRIC05 Battery Charger (2 slots, for Charging Scan Trigger Battery)



ATRI055 Charging Scan Trigger



ATRIB05 Charging Scan Trigger Battery

Module Configuration

Barcode Scanner

| | |
|-------------------|---|
| 2D Barcode Engine | Zebra: SE4710 / SE2100; Honeywell: N6603; E3200; IA166S |
| 1D Symbolologies | UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc. |
| 2D Symbolologies | 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. |

NFC Module

| | |
|-----------|---|
| 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 to 4 cm |

Fingerprint Module

| | |
|-----------------------|---|
| Sensor | TCS1 |
| Sensing Area (mm) | 12.8 x 18.0 ; 10.4 x 14.4 |
| Resolution (dpi) | 508 dpi, 8-bit greylevel |
| Certifications | FIPS 201, STQC |
| Format Extraction | ISO 19794, WSQ, ANSI 378, JPEG2000 |
| Fake Finger Detection | Support by SDK |
| Security | AES, DES key encryption of the host communication channel |

- Fingerprint version does not support ATRI055 accessory

Volume Measurement

| | |
|---------------------|------------------|
| Sensor | IRS1645C |
| Measurement Error | <5% |
| Module | MD101D |
| Field of View Angle | D71° /H60° /V45° |
| Measurement Speed | 2s/ piece |
| Measured Distance | 40cm-4m |

- Volume Measurement version does not support ATRI055 accessory

UHF RFID (Internal)

| | |
|-----------|---|
| Engine | Impinj E510 |
| Frequency | 865-868 MHz / 920-925 MHz / 902 MHz |
| Protocol | MHz |
| Antenna | EPC C1 GEN2 / ISO18000-6C |
| Power | Circular polarization (-2.5 dBi) 1 W (+19 dBm to +30 dBm adjustable) |
| R/W range | Up to 1.5 m |

UHF RFID (With Back Clip)

| | |
|--------------------|---|
| Engine | Impinj E710 ; Impinj Indy R2000 |
| Frequency | 865-868 MHz / 920-925 MHz / 902 MHz |
| Protocol | EPC C1 GEN2 / ISO18000-6C |
| Antenna | Circular Polarized Antenna (4 dBi) |
| Power | 1W (30 dBm, +5 dBm to +30 dBm adjustable) ; 2W (33 dBm, for Latin America, etc.) (Optional) |
| R/W range | Up to 15 m (open outdoors, Impinj MR6 tag) |
| Fastest Read Rate | 900+ tags/sec |
| Communication Mode | Pin Connector |

UHF RFID (With Sled Reader)

| | |
|--------------------|--|
| Engine | Impinj E710 ; Impinj Indy R2000 |
| Frequency | 865-868 MHz / 920-925 MHz / 902 MHz |
| Protocol | EPC C1 GEN2 / ISO18000-6C |
| Antenna | Circular Polarized Antenna (3 dBi) |
| Power | 1W (30 dBm, support +5~+30 dBm adjustable) ; 2W (33 dBm, for Latin America, etc.) (Optional) |
| R/W range | Up to 10 m (open outdoors, Impinj MR6 tag) |
| Fastest Read Rate | 900+ tags/sec |
| Communication Mode | Pin Connector / Bluetooth |