

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
Management



Warehouse
Optimization



Process
Supervision



Inventory
Checking



Asset
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	5520mAh 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



Optional Accessories



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 greyscale
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 / 902-928 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 / 902-928 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 / 902-928 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