



# MC55 Mobile Computer



Android 12



5G



WiFi



Bluetooth



1D Barcode



2D Barcode



NFC



Camera



GPS

This is our newly launched 5G high-performance mobile computer. The top-of-the-class configuration comprises advanced Android 12, Qualcomm Snapdragon™ processor, and optional ultra-large memory. It integrates barcode scanning, NFC, dual camera, and multiple wireless data connections, as well as 6-inch HD screen, high-capacity removable battery and IP67 sealing. It can bring a new level of cost efficiency to a broad range of industries including retail, logistics, and warehousing.



# Specification

| Physical Characteristics |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| Dimensions               | 161.0 x 77.8 x 15.5mm / 6.34 x 3.06 x 0.61in.                            |
| Weight                   | 287g / 10.01oz. (device with battery)                                    |
| Keypad                   | Power key, 2 scan keys, volume (+/-) keys                                |
| Battery                  | 5000mAh removable main battery, support QC3.0 and RTC                    |
| Display                  | 6-inch high definition display (18:9), 1440 x 720                        |
| Touch Panel              | Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported |
| Sensor                   | G_sensor, proximity sensor, light sensor, geomagnetic sensor, gyroscope  |
| Notification             | Sound, LED indicator, vibrator                                           |
| Audio                    | 2 microphones, 1 for noise cancellation; 1 speaker; 1 receiver           |
| Card slot                | 1 for SIM card, 1 for SIM or TF card                                     |
| Interfaces               | USB Type-C, USB 3.1, OTG                                                 |

| Performance |                                            |
|-------------|--------------------------------------------|
| CPU         | Qualcomm Snapdragon™ 480 Octa-core, 2.0GHz |
| RAM+ROM     | 4GB + 64GB                                 |
| Expansion   | Supports up to 256GB TF card               |

| Developing Environment |                          |
|------------------------|--------------------------|
| Operating System       | Android 12               |
| SDK                    | Software Development Kit |
| 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 1.5m / 4.92ft. drops (at least 20 times) to the concrete across the operating temperature range |
| Tumble Specification | 1000 x 0.5m / 1.64ft. falls at room temperature                                                          |
| Sealing              | IP67 per IEC sealing specifications                                                                      |
| ESD                  | ±15KV air discharge, ±8KV conductive discharge                                                           |

| Communication |                                                                                                                                                                                                         |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vo-LTE        | Support Vo-LTE HD video voice call                                                                                                                                                                      |
| Bluetooth     | Bluetooth 5.1                                                                                                                                                                                           |
| GNSS          | GPS / AGPS, GLONASS, BeiDou, Galileo, internal antenna                                                                                                                                                  |
| WLAN          | Support 802.11 a/b/g/n/ac/ax-ready, 2.4G/5G dual-band, IPV4, IPV6, 5G PA;                                                                                                                               |
|               | Fast roaming: PMKID caching, 802.11r, OKC                                                                                                                                                               |
|               | Operating Channels: 2.4G (channel 1~13), 5G (channel 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165), Depends on local regulations |
| WWAN          | Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS,PEAP-GTC, WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal, etc.     |
|               | 2G: 850/900/1800/1900MHz                                                                                                                                                                                |
|               | 3G: 850/900/1900/2100MHz                                                                                                                                                                                |
|               | 4G: B1/B2/B3/B5/B7/B8/B20/B28A/B28B/B34/B38/B39/B40/B41                                                                                                                                                 |
|               | 5G: N1/N3/N8/N28/N41/N78/N79                                                                                                                                                                            |

| Data Collection |                                               |
|-----------------|-----------------------------------------------|
| Camera          |                                               |
| Rear Camera     | 16MP Autofocus with flash                     |
| Front Camera    | 5MP                                           |
| 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           | 2-4cm                                         |

| Barcode Scanning (Optional) |                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2D Scanner                  | Zebra: SE4710; Newland: CM60                                                                                                                                                                               |
| 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. |

| Optional Accessories                                          |  |
|---------------------------------------------------------------|--|
| USB Cable, Adapter, Charging Cradle, Rugged Rubber Boot, etc. |  |
| *See details in accessory guide                               |  |

Notice: Product specifications are subject to change without prior notice / Update Date: 2024-01-09