RUGGED-IT

CHAINWAY C61

Mobile Computer

Android | 4G | WiFi | Bluetooth | 1DBarcode | 2D Barcode | NFC | UHF | Camera | GPS

This is a rugged handheld computer with robust performance. Built with Android 9.0 OS and Qualcomm Octa-Core processor, it supports 27 keys /37 keys /47 keys optional keypad, abundant accessories like trigger handle, and features powerful removable battery. And it delivers optional barcode scanning, RFID, NFC, etc. This mobile computer can fulfill applications in logistics, warehousing, retail, etc.

Specification

Physical Characteristics

Dimensions	202.0 x 72.5 x 32.0 mm /7.95 x 2.85 x 1.26 in.
Weight	370g /13.05oz. (SE4710) ; 404g /14.25oz. (SE4850)
Keypad	Main keyboard (Optional) : 27 keys /37 keys /47 keys; Side keys: 2 scan keys +2 volume keys +1user-defined key
Battery	6700 mAh removable main battery, 5200 mAh optional pistol battery, support QC3.0 and RTC; Built in 100mAh backup battery, supporting battery hot swap, improving reliability and ensuring user data security
	Standby: up to 680 hours (only main battery ; WiFi: up to 560h; 4G: up to 560h)
	Continuous use: over 12hours (depending on user environment)
	Charging time: 3.5 hours (charge device by standard adaptor and USB cable)
Speaker	Support
Vibrator	Support
Microphone	2 Microphones, 1for noise reduction
Display	4-inchhigh definition full display, IPS LTPS 800 x 480
Touch Panel	Multi-touchpanel, gloves and wet hands supported
Sensor	Gravity sensor, proximitysensor, light sensor, accelerometer sensor, vibration motor
Indicator LED	Power, charging, status indicator
Card slot	1slot for SIM card, 1slot for TF card
Interfaces	USB Type-C,USB 3.0, OTG, extended thimble

Performance

CPU	Qualcomm 1.8GHz Octa-core
RAM+ROM	3 GB +32 GB 4 GB +64 GB (optional)
Expansion	Supports up to 128GB Micro SD card

Developing Environment

Operating System	Android 9.0; GMS, 90-daysecurity updates, Android Enterprise, Zero-Touch,FOTA, Soti MobiControl, SafeUEM supported
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 to 95% RH (non condensing)
Drop Specification	Multiple 1.8m /5.9 ft. drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5 m /1.64 ft. falls at room temperature
Sealing	IP67 per IEC sealing specifications
ESD	±15KV air discharge, ±8KV conductive discharge

Communication

WLAN	Support 802.11a/b/g/n/ac/d/e/h/i/k/r/v,2.4G/5Gdual-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),Dependson local regulations
	Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS, PEAP-GTC, etc.
WWAN (Europe, Asia)	2G: 850/900/1800/1900MHz
	3G: CDMA EVDO: BC0
	WCDMA: 850/900/1900/2100MHz
	TD-SCDMA: A/F(B34/B39)
	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41
WWAN(America)	2G: 850/900/1800/1900MHz
	3G: 850/900/1900/2100MHz
	4G: B2/B4/B5/B7/B12/B17/B38
Vo-LTE	Support Vo-LTEHD video voice call
Bluetooth	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internalantenna

Data Collection

Camera

Rear Camera	Rear 13MP Autofocus with flash

NFC

Frequency	13.56 MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1,NFC-IP2, etc.
Chips	M1card (S50, S70), CPU card, NFC tags, etc.
Range	2-4 cm

UHF (Optional)

Engine	Based on ImpinjIndy R2000
Frequency	865-868 MHz /920-925 MHz /902-928 MHz
Protocol	EPC C1GEN2 /ISO18000-6C
Antenna	Circular Polarized Antenna (4 dBi)
Power	1W(30 dBm, +5dBm to +30dBm adjustable)
	2W Optional (33 dBm, for Latin America, etc.)
R/W range	Up to 15m (open outdoors, Impinj MR6 tag)
Fastest Read Rate	900+tags/sec
Communication Mode	Pin Connector

*Ranges and rates depend on tags and environment

Barcode Scanning (optional)

2D Scanner	Zebra: SE4710/SE4750/SE4850
1DSymbologies	UPC/EAN, Code128, Code39, Code93, Code11,Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
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.

Optional accessories(See details in Accessory Guide)

Separate handle with one button;

Handle +battery (handle battery 5200 mAh, one button) ;

UHF back clip +handle (5200 mAh, one button) ;

Wrist Strap; Charging Cradle