AI-HT-T7-Hand-held Terminal

AI-HT-T7 is a newly-developed rugged handheld computer with large screen and strong extensibility. Based on Android 7.1 / Anroid 9.0 OS, it is equipped with Qualcomm octa-core processor for high-speed processing. With 5.5-inchhigh-definition display, it is integrated with barcode scanning, NFC and other functions. The data collection device supports quick charge and UHF sled for good extensibility that can meet the needs in logistics, warehouse, manufacturing, retail,asset tracking, power patrol inspection,etc.

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

| UHF | UHF Sled Reader | Pistol Grip |

Specification

Physical Characteristics

Dimensions	160x76x15.5mm / 6.3*2.99*0.61in
Weight	287g/ 10.12oz(Host with battery)
Keypad	1 power key ,2 scan keys ,2 volume keys ,1 PTT key
Battery	4300mAh removable main battery, 5200mAh optional pistol battery, support QC3.0 and RTC
	Standby: over 300 hours (only main battery)
	Continuous use: over 12 hours (depending on user environment)
	Charging time: 2.5hours (charge device by standard adaptor and USB cable)
Speaker	Support
Vibrator	Support
Microphone	2 Microphones, 1 for noise reduction
Display	5.5-inch high definition full display(18:9), IPS LTPS 1440*720
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Sensor	Distance sensor, light sensor, gravity sensor, vibration motor
Indicator LED	Power, charging, status indicator
Card slot	2 slot for SIM card, 1 slot for TF card
Interfaces	USB3.0, Type-C, OTG, extended thimble

Performance

CPU	Qualcomm 2.0GHz Octa-core Qualcomm 1.8 GHz Octa-core
RAM+ROM	2GB+16GB / 3GB+32GB
Expansion	Supports up to 128 GB Micro SD card

Developing Environment

Operating System	Android 7.1 / Android 9.0
SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-20℃~+50℃
Storage Temp.	-40℃~+70℃
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range
	Multiple 2.4m/7.87ft drops (at least 20 times) to the concrete after installed rubber bumper
Tumble Specification	1000 x 0.5m/1.6ft falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15KV air discharge, ±8KV conductive discharge

Communication

WLAN	Support 802.11 a/b/g/n/ac
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
Bluetooth	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
GNSS	GPS/AGPS, GLONASS, BeiDou, internal antenna

Data Collection

Camera

Rear Camera	Rear 13MP Autofocus with flash

NFC

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

UHF1 (Optional)

Engine	CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable)
	2W Optional (33dBm, for Lati America, etc.)
R/W range	>25m (indoors); >15m (open outdoors, Impinj MR6 tag)
Reading rate	>200 tags/s
Communication Mode	Pin Connector

UHF2 (Optional, UHF Sled)

Engine	CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (3dBi)
Power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Lati America, etc.)
R/W range	>22m(indoors); >10m(open outdoors, Impinj MR6 tag)
Reading rate	>200 tags/s
Communication Mode	Pin Connector / Bluetooth

*Ranges and rates depend on tags and environment

Barcode Scanning (optional)

2D Scanner	Zebra: SE4710/SE2100; Honeywell: N6603
1D Symbologies	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.

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