



## RFO-TT3000 High performance Android UHF RFID-Reader & 2D Barcode scanner

DATA SHEET

### Product Description

#### Main Features

The RFO-TT3000 is a powerful and versatile industrial handheld designed for the most demanding environments. Combining high-performance computing, rugged durability, and advanced UHF RFID technology, it ensures seamless data processing, reliable multi-tag reading, and long-lasting operation in logistics, manufacturing, and field applications.

#### Key Highlights:

- > Powerful Performance: Octa-core Cortex-A55 + 200M RISC-V Co-processor, Android 14.0
- > Durable & Ergonomic: Aluminum-PC housing with tempered glass, IP64, 1.6 m drop protection
- > Extended Operation: 6000 mAh hot-swappable battery with optional extras
- > Advanced UHF RFID Engine: Reliable multi-tag identification and industry-leading stability
- > Premium Industrial Design: compact, elegant, and well-balanced

#### Product dimensions



<b>Article no:</b>		RFO-TT3000
<b>Typical Applications</b>		
•Manufacturing	•Health Care	
•Security	•Asset management	
•Waste management	•Food	
•Logistics	•Transportation	



Functional Specifications:	RFO-TT3000
<b>Mechanical Parameters</b>	
Materials	Cast Aluminium + PC
Dimensions	Body 167mm*82mm*130mm / Grip 111mm*38mm*47mm
Weight	615g (Battery included)
<b>System Characteristics</b>	
Operating System	Android 14.0
CPU	Octa-core 64-bit Cortex-A55 /up to 2.0 GHZ + a 200M RISC-V Co-processor
GPU	G57 MC1
RAM+ROM	4G+64G
LCD	5.0 inches/ 1280*720 / IPS / 180°view angle
Touch Screen	1.1mm thickness tempered glass / 5- dot touch / operable with gloves
Hotswapping Battery	Pistol style hotswapping battery system
Power/Volume	3 ALPS buttons / Operating force 2.2N / Operating life 1 million cycles
Scan Trigger	OMRON button / Operating force 1.27N / Operating life 10 million cycles
Battery	6,000mAh chargeable Li-polymer battery
Gyroscope	Support
Card Slots	Micro SIM card slot*1/ TF card slot*1 (Supports up to 256GB Micro SD card)
USB Interface	USB 3.0 TYPE C (OTG supported)
Speaker size	28mm*9mm*3.8mm
Vibration Motor	Button style / 10mm diameter
<b>Wireless Communications</b>	
WIFI	2.4G/5G Dual-Band
Bluetooth	Bluetooth 5.0
4G	Supported
<b>Application Environment</b>	
Operating Temp	-20°C~+60°C
Storage Temp	-30°C~+70°C
Work Humidity	5%RH - 95%RH (non-condensing)
Protection Grade	IP64
Safety Drop Height	1.6m / 5.25ft

**Contact:**

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Data Collections	
1D Barcode	UPC/EASymbolSE955N/Code128/Code39/Code93/Code11/Interleaved 2 of 5/Discrete 2 of 5/Chinese2 of5/Codabar/MSI/ RSS, etc.
2D Barcode	Datamatrix/QRCode/PDF417 US Planet/ UK Postal, etc.
UHF RFID	
Sensitivity	-85dbm
Protocol	EPC Global UHF Class 1 Gen 2/ ISO 180006C GB/T 29768-2013
Frequency	902~928MHz,865~868MHz (optional)
RF Output Power	0~33dBm
Peak Inventory Speed	>500tags/s
Read Distance	>12m (Tested with Impinj E41binlay)
UHF Antenna	4dBi circularly polarized antenna
Supported Regions	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 China Korea Malaysia
HF RFID (OPTIONAL)	
Frequency	13.56MHz
Protocol	ISO14443A / ISO14443B / ISO18092 / ISO15693
Read Distance	2-3cm
Camera	13 megapixels / automatic focus / flashlight
Global positioning system	GPS & GLONASS & BEIDOU
Accessories	Battery / Charger & Cable / Hanging Lace / Charging Bay (optional)

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