



195 \* 141 \* 36mm

**Features and advantages:**

- Operating system: Linux 4.4 (700MHz, 256 MB DDR, 256 MB flash)
- Stable ThingMagic technology
- Mercury API based software
- Global frequency coverage
- Read 250 tags/s
- Read and write (transceiver) separate control
- Power signal ESD:  $\pm 8\text{kV}$  (contact);  $\pm 15\text{kV}$  (air)
- Antenna Signal ESD:  $\pm 2\text{kV}$  (contact);  $\pm 15\text{kV}$  (air)
- Optical isolation GPIO: Input and output \* 4
- Working temperature:  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Storage temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Humidity: 5% to 95% (non-condensing)
- Protection level: IP 65
- Development language support: Java, C, C#

FU-M6-N is a small, thin and easy-to-install single-antenna Linux operating system UHF RFID reader, using aluminum alloy housing, IP65 protection level, mature and stable, widely used in industrial and commercial environments.

Freescal's Arm-Cortex A7 provides a reliable and stable Linux platform.

Embedded ThingMagic M6E-N UHF RFID module with rich and stable functions;

The FU-M6-N's TCP/IP and Wi-Fi options enable flexible, low-cost, single-cable quick installation.

Tag Transfer Protocol			
RFID Protocol support	ISO18000-6C (EPC Class1 Gen 2)		
UHF RFID Antenna Interface			
Antenna interface	RP-TNC*1 interface		
RF power	Read/write (transceiver) separate mode Adjustable accuracy from 0dBm~27dBm/2W~5.5W, +/- 0.01dBm (when higher than +15dBm)		
Supported frequency bands	FCC (NA, SA) 917.4~927.2 MHz / ETSI (EU) 865.6-867.6 MHz / TRAI (India) 865-867 MHz/KCC (Korea)917-923.4 MHz / ACMA (Australia) 920-926 MHz / SRRC-MII (P.R. China) 920-925 MHz / MIC (Japan)916.8-923.4 MHz 'Open' (Customizable channel plan; 859-873, 915-930 MHz)		
Data/Control/Wireless Interface			
WIFI	802.11 a/b/g/n (optional)		
RF interface	TNC * 1		
External interface	RJ45*1 (10/100 Base-T Ethernet) / GPIO*4 / RS232 *1/ Power * 1		
Reset	Power off and restart		
Structure size			
Size	195*141*36mm	Weight	0.75 KG
Powered by			
DC power supply	12VDC, Max DC power: 20 W		
Surroundings			
Temperature	Working temperature: $-20^{\circ}\text{C}$ ~ $+60^{\circ}\text{C}$ ; Storage temperature: $-40^{\circ}\text{C}$ ~ $+85^{\circ}\text{C}$		
Humidity	5% ~ 95% (no condensation)		
RFID performance			
Max tag cache	>10M bits		
Tag read rate	>250 tag/s		
Max EPC ID	512 bits		
Architecture			
Processor	Arm-Cortex A7 / Freescale i.Max ( 700MHz, 256 MB DDR, 256 MB Flash )		
Operating system	Linux 4.4		
Network communication	TCP/IP or WIFI		
Security Protocol	SSL/SSH -based security		
Network IP	TCP/IP Static 、 WIFI Dynamic		
Programming interface			
Host API	Java, C, C#		
Authentication and Security			
Certification	Thingmagic M6e Module : Canada (Industry Canada RSS-21 0); EU (ETSI EN 302 208 v3.1.1, FCC47 CFR CH.1Part15, RED 2014/53/EU)		
Other	ROHS		
Ordering Information			
TCP/IP	FU-M6 -N( 1Port)		