

# FU-Astra-M9

# IP67 Integrated UHF RFID Reader



258\*258\*100mm

FU-Astra-M9 is an easy to install, unobtrusive, integrated 2-port reader, Inside 9dbi circularly antenna and IP67 designed for Industrial and commercial environments.

Driven by ThingMagics powerful M6e-Micro UHF RFID Module, Freescale's Arm-Cortex A7 provides a robust and stable Linux platform.

FU-Astra-M9 's TCP/IP and Wi-Fi options allow for flexible, low cost, single cable installations.

## Features & Benefits:

- **Operating system**  
Linux 4.4  
( 700mHz, 256 MB DDR, 256 MB Flash )
- **Built Around Proven ThingMagic Technology**
- **Based on Mercury API software support**
- **World-wide frequency coverage**
- **Reads up to 750 tag /s**
- **Independent read and write RF controls**
- **Power signal ESD:**  
±8kV (contact) ;  
±15kV (air)
- **Antenna signal ESD:**  
±2kV (contact) ;  
±15kV (air)
- **Optically Isolated Inputs \*1 & Outputs \*1**
- **Operating Temperature:**  
-40°C to +60°C
- **Storage Temperature**  
-40°C to +85°C
- **Humidity: 5% to 95% (non-condensing)**
- **Degree of protection:**  
IP 67
- **Programming Interface:**  
Java, C,

Tag / Transponder Protocols			
RFID Protocol Support	ISO18000-6C (EPC Class1 Gen 2) / ISO18000-6B / IP-X / Gen2v2/AEI ATA (ISO18000-6B/IP-X/AEI ATA, Need to pay license)		
UHF RFID Antenna Interface			
Antenna	Integrated 9dBi*1 Antenna, 865 to 960 MHz / 5dBi *1 Wifi Antenna ( optional )		
Ext. Interface	RP-TNC*1 connector		
RF Power	Separate read and write levels, command adjustable from -5 dBm to 30 dBm* in 0.5 dB steps, accurate to +/- 1 dBm		
Regulatory	FCC (NA, SA) 902-928 MHz / ETSI (EU) 865.6-867.6 MHz / TRAI (India) 865-867 MHz / KCC (Korea)917-920.8 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; 865-869, 902-928 MHz)		
Data/Control/Wireless Interfaces			
WIFI	802.11 a/b/g/n ( optional )		
Connector	RJ45 (10/100 Base-T Ethernet) / SMA M ( optional )		
Cable	5.0mm Power / GPIO *2		
Reset	Power Off		
Physical			
Dimensions	258*258*100mm	Weight	2.26 KG
Power			
DC Power	12VDC, Max DC power: 20 W		
Environment			
Temperature	Operating :-20°Cto+60°C ; Storage: - 40°Cto+85°C		
Humidity	5% to 95% (non-condensing)		
RFID performance			
Max Tag Cache	>10M bits		
Max Tag Read	>750 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		
Networking	TCP/IP or WIFI		
Security	SSL/SSH -based security		
Programming Interface			
Host API	Java, C		
Certification and Safety			
Certification	Thingmagic M6e-Micro Module : FCC47 CFR CH.1Part15		
Other	ROHS		
Ordering Information			
TCP/IP	FU-Astra -M9		
WIFI	FU-Astra-M9-WIFI		