

# AUTOID UF2

## Compact UHF RFID Integrated Reader

An embedded QM100 engine is included in the UF2 UHF reader developed by SEUIC. TCP/IP protocol interface is standard, and CAN, RS232, RS485 and other protocols are optional. Combined with proprietary and efficient signal processing algorithms, it achieves a high reading rate and fast tag reading, making it suitable for various applications, including logistics, production control, etc.



## Product Features



### Strong core and performance

A strong protection grade, IP67, is suitable for environments involving moisture, dust, oil, and other harsh industrial elements. Long-lasting and durable M12 industrial joint with a stable connection. A highly flexible industrial interconnection system that supports multiple communication protocols such as RS232/485, CAN, TCP/IP, and many more.



### Simple deployment

The device's size is small, 95x95x36mm, making it easy to deploy quickly.

## Specifications

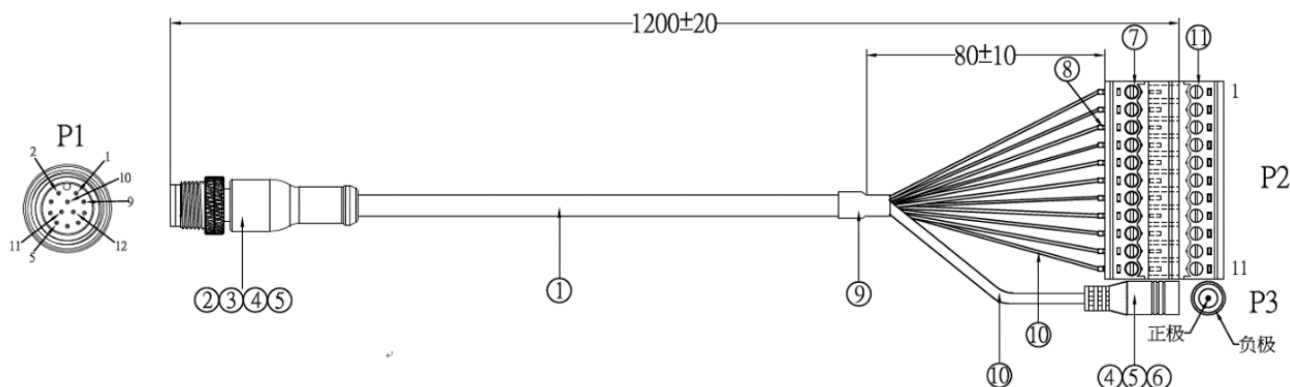
Physical and Environment Parameters	
System	STM32
RAM	192K Byte
ROM	1M Byte
Interface/Communication	Default network port (10/100M adaptive speed), Optional CAN Optional RS232 (rate 115.2Kbit/s) Optional RS485 (half duplex)
Power supply	12V DC
Power consumption	< 12W
Interface	M12 industrial interface * 2 Including power supply, GPIO and communication interfaces
Input and output	By default, 2-in 2-out optocoupler isolated GPIO, compatible with 5-24V level Support GPIO customization
Notification method	Buzzer, LED indicator
Size	3.7 in. L x 3.7 in. W x 1.4 in. H 95mm L x 95mm W x 36mmH
Weight	12.3 oz./350g (different according to different configurations)
Working temperature	-4°F/-20 °C to +122°F/+50 °C
Storage temperature	-40°F/-40 °C to +185°C/+85 °C
Humidity	5% to 95% RH non-condensing
Waterproof and dustproof industrial grade	IP67
Seismic resistance	Vibration amplitude: 2cm. Vibration frequency: 1~10Hz. Vibration direction: up, down, left, right and random.

Electrostatic discharge (ESD)	± 8kV contact discharge
RFID Performance Parameters	
Tag protocol	EPC C1 GEN2 / ISO18000-6C
Working frequency	Default: 920MHz - 925MHz (China) 860Mhz – 960Mhz (it can be adjusted according to the requirements of different countries or regions)
Work mode	Default random frequency hopping, support fixed frequency
Output power	10-30dBm adjustable, step power 1dBm
Antenna gain	2dbiC (circular polarization)
Read distance	>2m (H47 tag), the actual distance is related to the tag and environment
Write distance	0-1m (H47 tag), the actual distance is related to the tag and environment
Multi-tag speed	>40pcs/s (H47 tag), the actual speed is related to the tag and environment
Third Party Application Development Support	
Upper computer software	Windows/Linux/Android
System programming environment	VS2015
Accessories	
Standard hardware	M12 12Pin power supply +GPIO adapter cable, M12 8Pin communication adapter cable
Standard software	Upper computer Demo, Demo user manual SDK, interface user manual

## II. Interface Inllustration

### 2.1 Connection line M12-12P

#### L102-M12A-12PIN signal definition diagram



P1 PIN	Color	PIN Name	P2 PIN	P3 PIN
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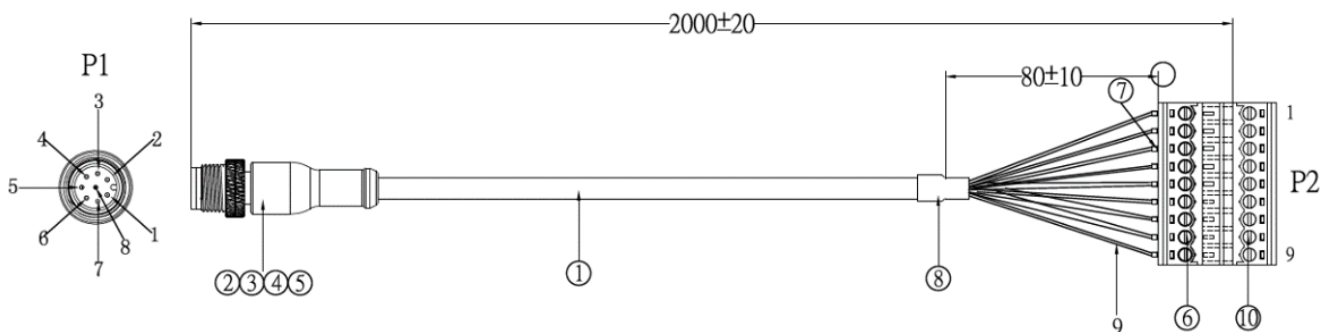
## PRODUCT SPEC SHEET

### AUTOID UF2-C UHF INTEGRATED READER

1	black	negative pole		negative electrode
2	red	positive pole		positive electrode
3	white	signal ground	1	
4	blue	channel 1	2	
5	orange	channel 1 output power supply	3	
6	yellow	channel 2	4	
7	purple	channel 2 output power supply	5	
8	gray	channel 3 output power supply	6	
9	green	channel 3	7	
10	Pink	channel 4 output power supply	8	
11	brown	channel 4	9	
12	sky blue	signal ground	10	
SHELL	ground wire+weave	PE	11	

## 2.2 Connection line M12-8P

### L102-M12A-8PINsignal definition diagram



P1 PIN	Color	PIN Name	P2 PIN
1	white/blue	TXD (RS232)	1
2	brown/white	A(485)	2
3	brown	B(485)	3
4	orange	GND	4
5	green/white	CAN-H	5
6	orange/white	GND	6
7	blue	RXD(RS232)	7
8	green	CAN-L	8
casing	ground wire+weave	PE	9