



# **AUTOID UF40**

**UHF 4 Ports Fixed RFID Reader** 

The Seuic AUTOID UF40 is a 4-channel split-type fixed RFID reader independently developed by Seuic, based on the Linux system. It integrates multiple protocol interfaces such as RS232 and TCP/IP, and can be matched with various specifications of antennas. Combined with proprietary and efficient signal processing algorithms, it achieves high tag reading rates and fast read-write processing. It can be widely applied in scenarios such as intelligent manufacturing, supply chain management, digital warehouse management, retail, access control management, asset management, and logistics management.



# **Product Features**



## **Field Industrial Grade Protection**

Complies with EPC Class1 Gen2 / EPC Class1 Gen2X / ISO18000 - 63 protocol. Secure and upgradable Linux OS provides enterprise level security and reliability, as well as the ability to customize using reader application.

Powerful edge processing realizes intelligent reader RAIN RFID tag processing algorithms



#### Flexible control and data communication

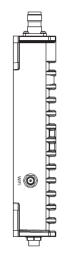
Support MQTT Internet of Things protocol, enabling easy connection to IoT applications for device configuration and control.
Support WiFi wireless communication.
Self learning capability, one click quick configuration optimization according environment

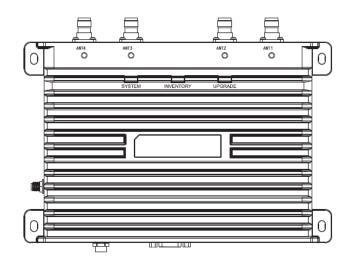
# **Specifications**

PERFORMANCE CHARACTERISTICS		
Code Support	EPC Class1 Gen2/ EPC Class1 Gen2X/ ISO18000-	
	6C	
Working frequency	860MHz - 930MHz (adjustable according to	
	different national or regional requirements)	
Output Power Range	1-33dBm adjustable	
Power Adjustment	1dB	
Step	108	
Maximum Reading	Un to 1300 to so / sound	
Rate	Up to 1300 tags / second	
Reading Distance	>10m (30dbm, 9662 white card, outdoor open	
	environment, 9dBiC circularly polarized	
	antenna)	
Writing Performance	> 5m (30dbm, 9662 white card, outdoor open	
	environment, 9dBiC circularly polarized	
	antenna)	
СРИ	Cortex <sup>™</sup> - A53 Quad core 2.0 GHz	
Operating System	Linux 5.4	
Storage	2GB + 32GB	
Communication	TCP/IP, RS232, WIFI (2.4G/5G dual - band,	
Protocol	IEEE802.11a/b/g/n/ac)	
Interfaces	RP - TNC*4、WIFI、DC 12 - 48V、USB 2.0*2、	
	RJ45 (1000M/100M/10M adaptive) 、	
interfaces	RS232(DB9 Female) Debug interface	
	system reset	
	Supports multiple GPIO, 4 inputs, 4 outputs.	
	Output:	
	Output 1: relay output, rated load 30V/1A,	
Innut and Output	Output 2–4: GPIO self-powered, voltage equal	
Input and Output	to input voltage, rated current: 0.75A;	
	Input: optocoupler isolated, supports external	
	power supply mode, maximum support 48V,	
	minimum 4V	
Max Receive	-87dBm (Gen2 protocol)	
Sensitivity	-93dBm (Gen2X protocol)	

Power Supply	12 - 48VDC, standard adapter 24V/2A, supports		
	POE power supply		
Power Consumption	Maximum 1.2A		
POE	Supports IEEE802.3-AT and IEEE802.3-AF		
	protocols		
	(using 100m Cat5e cable, 803.af power supply,		
	maximum load 13.8W; 803.at power supply,		
	maximum load 17.5W)		
Power Consumption	≤1.5A (24V power supply)		
Temperature	Operating temperature: -20°C to +60°C;		
	Storage temperature: -25°C to +80°C;		
	Operating humidity: 5% ~ 95%RH, non -		
	condensing		
Sealing Grade	IP54		
Dimension	230(L)×150(W)×32(T)mm		
Weight	≤1160g (bare machine) ≤1850g (packaged)		
INTERFACE DEFINITION			
Power interface	1*DC JACK		
USB Interface	USB interface*2(USB-A)		
TCP/IP Network Interface	1* RJ45		
System Reset Button	1*		
Serial Communication Interface	1*RS232(DB9 Female)		
Debug/Download USB Interface	1* Micro USB		
Antenna Interfaces	RP-TNC*4, ANT1~ANT4 (RP-TNC Female)		
WIFI	1*(SMA Female)		
General Purpose			
Input/Output	GPIO*2		
Interfaces			
	L		

# II. Product interface illustration





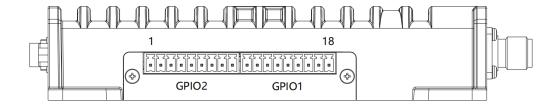












### **GPIO** definition

Serial No.	Symbol	Description
1	Output4	GPIO output 4
2	Output3	GPIO output 3
3	Output2	GPIO output 2
4	Output1_B	GPIO output 1 relay terminal B
5	Output1_A	GPIO output 1 relay terminal A
6	GND	Signal ground
7	GND	Signal ground
8	RX	Debug serial input
9	TX	Debug serial output
10	Input4	General optocoupler-isolated input 4
11	Input3	General optocoupler-isolated input 3
12	Input2	General optocoupler-isolated input 2
13	Input1	General optocoupler-isolated input 1
14	GPV	GPIO output voltage (equal to power supply voltage)
15	GIN	GPIO input reference ground
16	GND	Signal ground
17	RS485-B	RS485-B terminal
18	RS485-A	RS485-A terminal

### III. Product Installation Schematic

There are four mounting holes at the four corners of the device, with a hole diameter of Ø4mm and a hole spacing of 215mm\*125mm.







### AUTOID UF40 UHF RFID READER

