

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

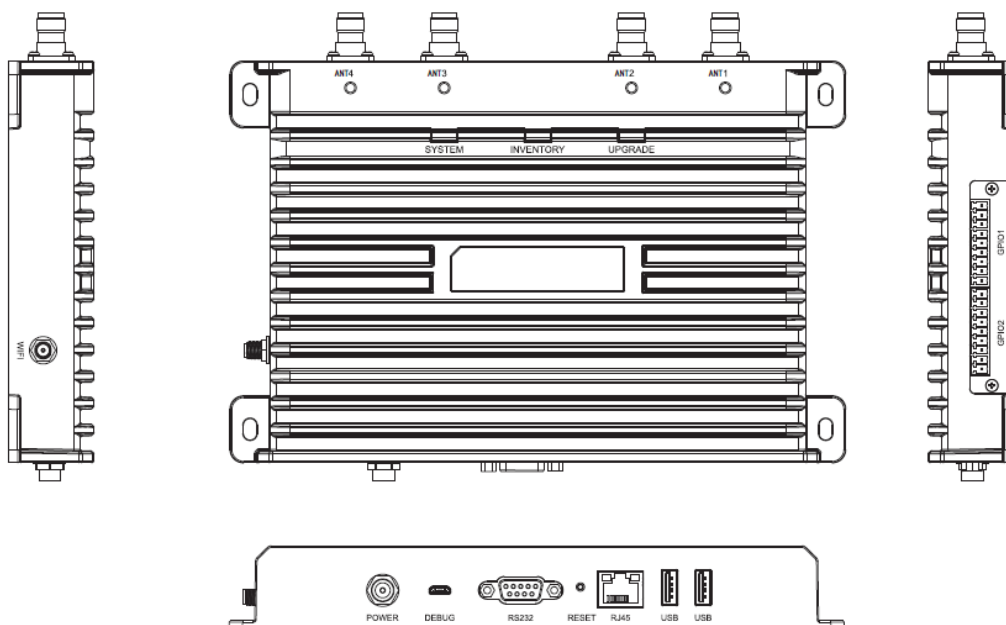
Support MQTT Internet of Things protocol, enabling easy connection to IoT applications for device configuration and control. Support WiFi wireless communication. Self learning capability, one click quick configuration optimization according environment

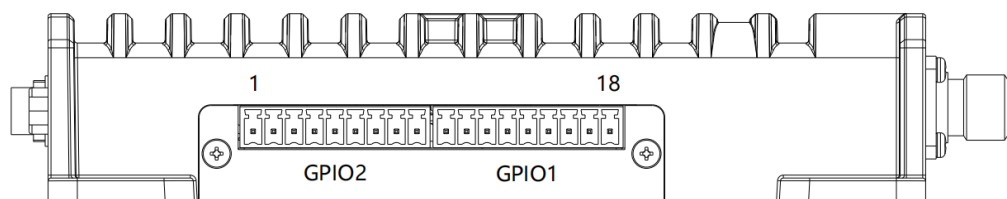
Specifications

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 Step	1dB
Maximum Reading 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)
CPU	Cortex TM - A53 Quad core 2.0 GHz
Operating System	Linux 5.4
Storage	2GB + 32GB
Communication Protocol	TCP/IP, RS232, WIFI (2.4G/5G dual - band, IEEE802.11a/b/g/n/ac)
Interfaces	RP - TNC*4、WIFI、DC 12 - 48V、USB 2.0*2、RJ45 (1000M/100M/10M adaptive)、RS232(DB9 Female)、 Debug interface、 system reset
Input and Output	Supports multiple GPIO, 4 inputs, 4 outputs. Output: Output 1: relay output, rated load 30V/1A, Output 2-4: GPIO self-powered, voltage equal to input voltage, rated current: 0.75A; Input: optocoupler isolated, supports external power supply mode, maximum support 48V, minimum 4V
Max Receive Sensitivity	-87dBm (Gen2 protocol) -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℃ to +60℃; Storage temperature: -25℃ to +80℃; 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 Interfaces	GPIO*2

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 $\varnothing 4\text{mm}$ and a hole spacing of $215\text{mm} \times 125\text{mm}$.

PRODUCT SPEC SHEET

AUTOID UF40 UHF RFID READER

