4 Channels UHF RFID Fixed Reader

OPP401

1.The synopsis of the reader：

The OPP401 is a low profile, high-performance 4-port RFID reader designed for both indoor and outdoor applications. Adopt Impinj Indy E710 chip, with high-performance multi-tag identification algorithms.

The OPP401 has built-in Linux operating system, which not only meets the complex customer business requirements, but also responds to various label operations independently and quickly. Multi-tag reading performance is excellent, supporting intensive reading, large capacity tag reading and writing, received signal strength detection (RSSI). It has reliable network adaptability, supports a variety of network protocols, and is easy to deploy large-scale applications.

2.Product features

Mechanical electrical performance	
Equipment size Dimension：（MM）	215（L）*158（W）*38（H）（±1）
Diemension including packaging（MM）	317（L）*255（W）*66（H）（±1）
Net weight：　　(KG)	1.20（±0.02）
Gross weight：（KG）	1.75（±0.02）
Shell	dark gray, sheet metal, durable
Performance Index	
Tag / Transponder Protocols	EPCglobal Gen 2 (ISO 18000-6C)
RF Connector	4 RP-TNC antenna connectors
Frequency	865~868MHz/902～928MHz（Can be adjusted according to different countries or regions）
Frequency modulation	FHSS or fixed-frequency,　can be set by software
RF output	from 0 dBm to 30 dBm* with　+/-1dBm
Reading distance	9dbi Antenna configuration, typical read range: 15 to 25 m (depends on tag)
Peak inventory speed	> 900 tags/sec
Tag Buffer Size	100,000tags @ 96 bit EPC
Tag RSSI	Supported
Antenna Detector	Supported
Working mode	the principal and subordinate mode /off-line working mode/Trigger mode
Power	With 220V AC input, the output of +12 V/4A DC power converter、POE（Optional）
Input / output (GPIO)	3 inputs, 3 outputs(4 inputs, 8 outputs optional)
Communication interface	RJ45(10/100 Base-T Ethernet)、RS232
Operating System	Linux
Communication protocol	RS-232、TCP/IP、 Modbus、HTTP/HTTPS、MQTT、RabbitMQ
Host　API	C#、JAVA

Development Environment	Linux、Android、Windows、PLC、Web
Environment	
Operating Temp	-20～+55℃
Storage Temp	-20～+85℃
Humidity	5%～95%RH，Non-condensing

3.Definition of GPIO port

Number of GPIO: 3 inputs, 3 outputs; (4 inputs, 8 outputs optional)
The following is the definition of 3-channel input and 3-channel output

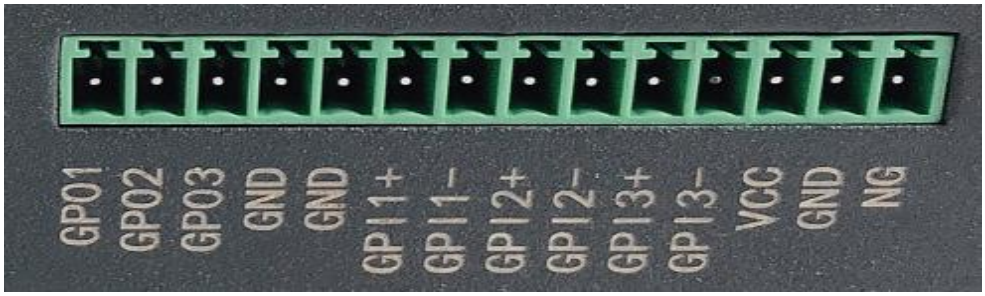

Figure 2

GPO1	The output voltage is the same as the DC power adapter of the reader, with a maximum current of 500mA
GPO2	The output voltage is the same as the DC power adapter of the reader, with a maximum current of 500mA
GPO3	The output voltage is the same as the DC power adapter of the reader, with a maximum current of 500mA
GND	The GND of Reader
GND	The GND of Reader
GPI1+	Input voltage range 9~24V
GPI1-	Same GND as the trigger source
GPI2+	Input voltage range 9~24V
GPI2-	Same GND as the trigger source
GPI3+	Input voltage range 9~24V
GPI3-	Same GND as the trigger source
VCC	Can provide the same voltage as the DC power adapter of the reader
GND	The GND of Reader
NG	Reserved

4.ACCESSORY

Name	Description	Quantity
Power Adapter	12V/4A，Power Adapter+a Power Cord with a length of 1.5 meters	1

Figure3 Power Adapter*1

Figure 4　Power Cord*1

5. MECHANICAL DATA (UNIT:mm)

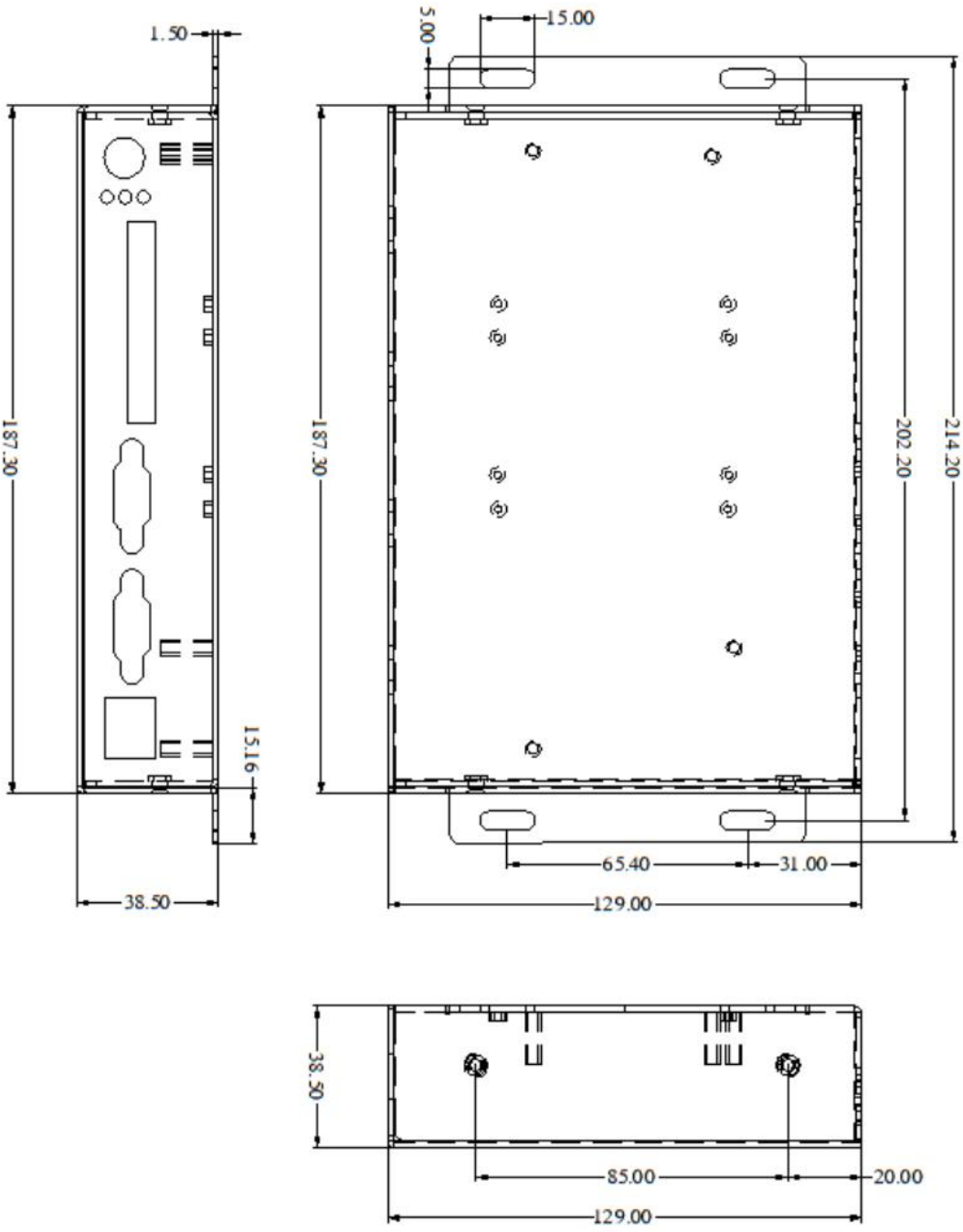

Figure 5