

UHF 4 port reader Spec **HYR830**



Winnix Technologies Co., Limited

Product Introduction

- HYR830 adopts Impinj R2000 module, maximum power output is 31dbm.
- 4 RP TNC ports, with an 8dbi circular polarized antenna, reading distance can reach 10 meters.
- Reading speed is 400 tags/sec.
- 8 LED lights, real-time display working status.
- Many external ports, Including network interface, RS232、 GPIO_IN*4、 GPIO_OUT*4、 RS485、 wiegand、 CAN、 USB、 WIFI, can meet different client's requirement.
- Excellent read and write performance, it is suitable for complicated environment application, for example logistics, clothing, asset management etc.

Technical Specifications

S/N	Item	Parameters	Unit	Remark
1	Operating voltage	12	V	
2	Maximum Current	800	mA	
3	Standby current	≤100	mA	
4	Frequency range	840-960	MHz	Standard:902-928MHz,customized optional
5	Default operating frequency	Frequency hopping	MHz	Frequency interval 250KHz
6	Channel bandwidth	250	KHz	
7	Frequency hopping speed	≤2	s	
8	Maximum power output	31	dBm	
9	Step interval	1	dB	5~30dBm adjustable by software
10	Label protocol	EPC C1G2 /ISO18000-6C		
11	Radio-frequency power rising time	≤500	μs	
12	Radio-frequency power dropping time	≤500	μs	
	Adjacent	≤-40	dB	±1CH

13	channel power leaking ratio	≤ -60	dB	$\pm 2\text{CH}$
14	Frequency stabilizing ratio	± 10	ppm	$-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
		± 20	ppm	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
15	Maximum reading range	10	m	8dBi Antenna
16	Multi-Label	$>400/\text{s}$		

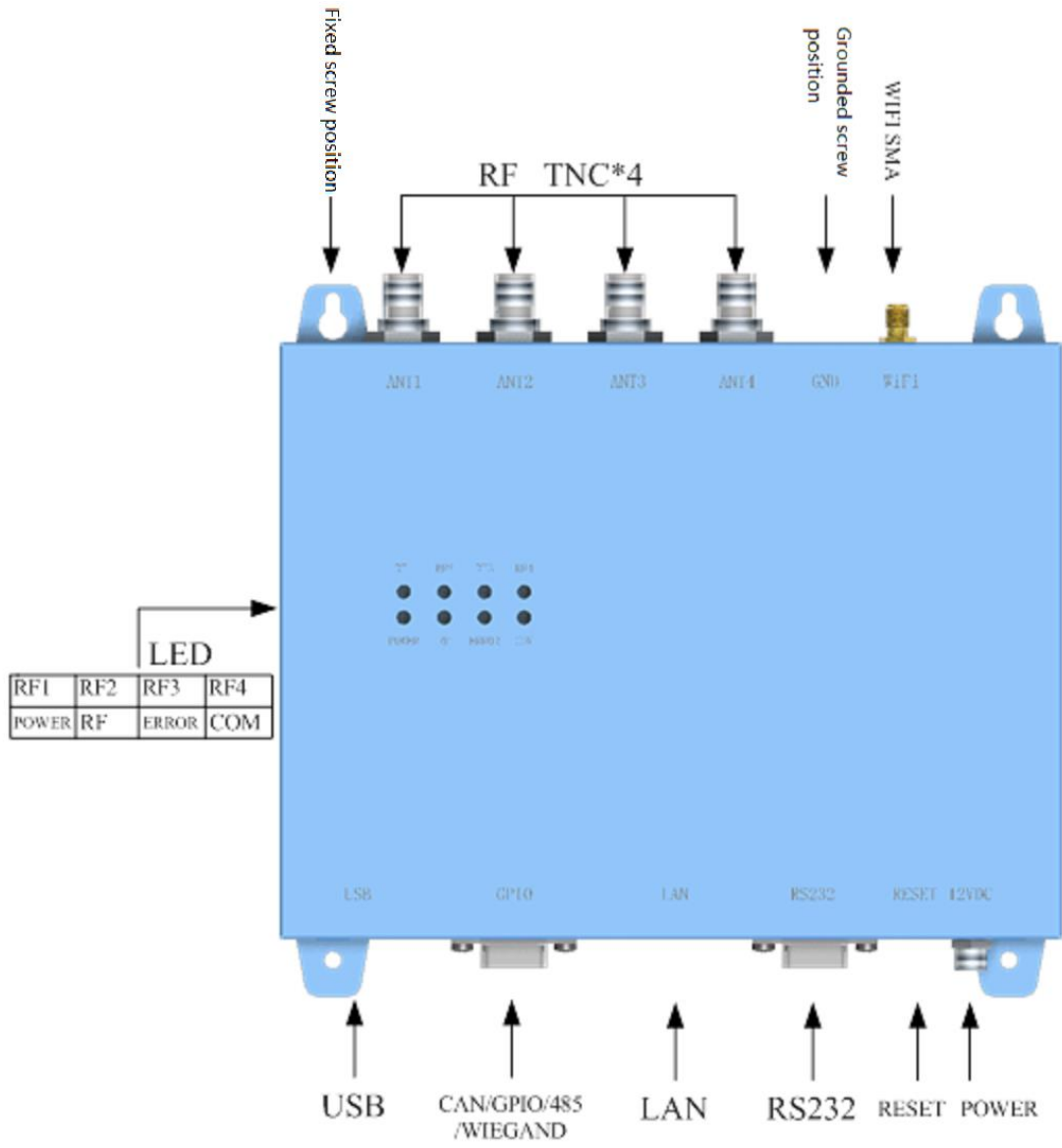
Appearance and structure

- Size(L*W*H): 190×145×30mm
- Weight: 300g



Picture1 Front view

External Interface



DB15 Interface definition

S/N	Item	Technical data	Unit	Remark
Pin	Signal name	Signal direction	Function/compatibility description	
1	GPIO2	Output		Optical isolation
2	GPIO3	Output		Optical isolation
3	GPIO8	Input		Optical isolation
4	GPIO6	Input		Optical isolation
5	WIEGAND1	Output	WIEGAND 接口	
6	485A	Bidirection	RS485 接口	
7	GPIO1	Output		Optical isolation
8	GPIO4	Output		Optical isolation
9	GPIO5	Input		Optical isolation
10	WIEGAND0	Output	WIEGAND port	
11	485B	Bidirection	RS485	
12	GPIO7	Output		Optical isolation
13	CANH	Bidirection	CAN port	
14	CANL	Bidirection	CAN port	
15	GND			

Environment requirement

S/N	Item	Parameters	Unit	Remark
1	Working temperature	-20~+70	°C	
2	Storage temperature	-40~+85	°C	
3	Relative humidity	5%~95%	RH	Non-Condensing