

EVEN CF831

UHF E710 single channel fixed reader



Widely used in assembly line management, mold production process monitoring, mechanical automation management, warehouse management, personnel management, etc.

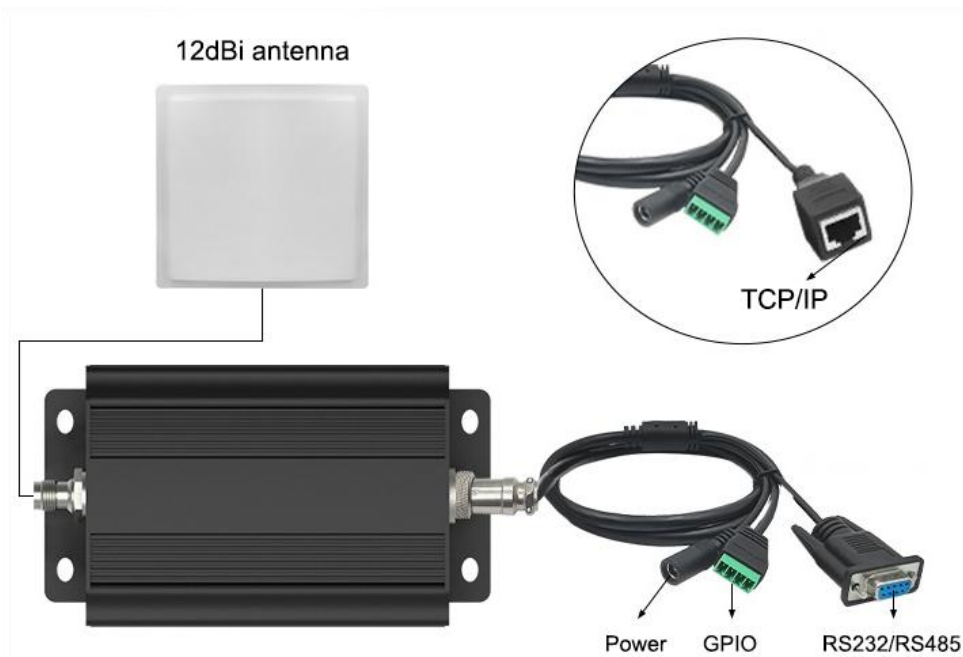
1、Product parameters

EVEN CF831 UHF E710 single channel fixed reader	
Frequency standard	902~928MHz (US) 865~868MHz (EU)
Protocol standards	ISO18000-6C (EPC GEN2)
Design	Impinj E710 chip
RF power	0-33dbm adjustable, step 1db
Maximum query speed	900 tags/second
Card reading distance	0~25 meters (depending on external antenna and tag)
Operating mode	Active mode, answer mode, trigger mode (configurable)
judge distance	Support output RSSI value
voltage	9-24V (equipped with 12V 2A power adapter)
Working current	Typical 1050mA, maximum 1500mA
Communication Interface	RS232, RS485, TCP/IP optional (GX16-9 waterproof connector)
GPIO interface	1 group GPI & 1 group GPO
Antenna connector	1 RP TNC female connector (TNC reverse female connector)
Equipment Specifications	155×88.6×47mm /
Single package weight	1.3kg
shell material	aluminum
Working humidity	5% to 95% (non-condensing)
Operating temperature	-20-+65℃
Storage temperature	-40-+95℃

2、Interface definition

2.1 Antenna interface: 1 RP TNC female connector (TNC reverse female connector), which can be connected to different types of antennas

2.2、Communication method: RS232, RS485, TCP/IP (optional)



2.3、Wiring definition

Wire diameter 24AWG, wire length 1m

CF831-232:RS232+DC+GPI+GPO

Item	Note	Describe	Connector
light green	TX	RS232 output	DB9 female
yellow	RX	RS232 input	
pink	GND	RS232 ground	
brown	GND	Input signal ground	4Pin plug terminal
blue	GPI	Input signal (withstand voltage 6V, maximum current 60mA)	
black	GND	DC (9V-24V) power supply negative pole	DC5525 female
red	V+	DC (9V-24V) power supply positive pole	
green	output-	Output signal negative pole (withstand voltage 100V, maximum current 130mA)	4Pin plug terminal
White	output+	Output signal positive (withstand voltage 100V, maximum current 130mA)	

CF831-485:RS485+DC+GPI+GPO

Item	Note	Describe	Connector
light green	B-	RS485 differential signal DN	DB9 female
pink	GND	RS485 ground	
brown	GND	Input signal ground	4Pin plug terminal
blue	GPI	Input signal (withstand voltage 6V, maximum current 60mA)	
black	GND	DC (9V-24V) power supply negative pole	DC5525 female
red	V+	DC (9V-24V) power supply positive pole	
green	output-	Output signal negative pole (withstand voltage 100V, maximum current 130mA)	4Pin plug terminal
White	output+	Output signal positive pole (withstand voltage 100V, maximum current 130mA)	

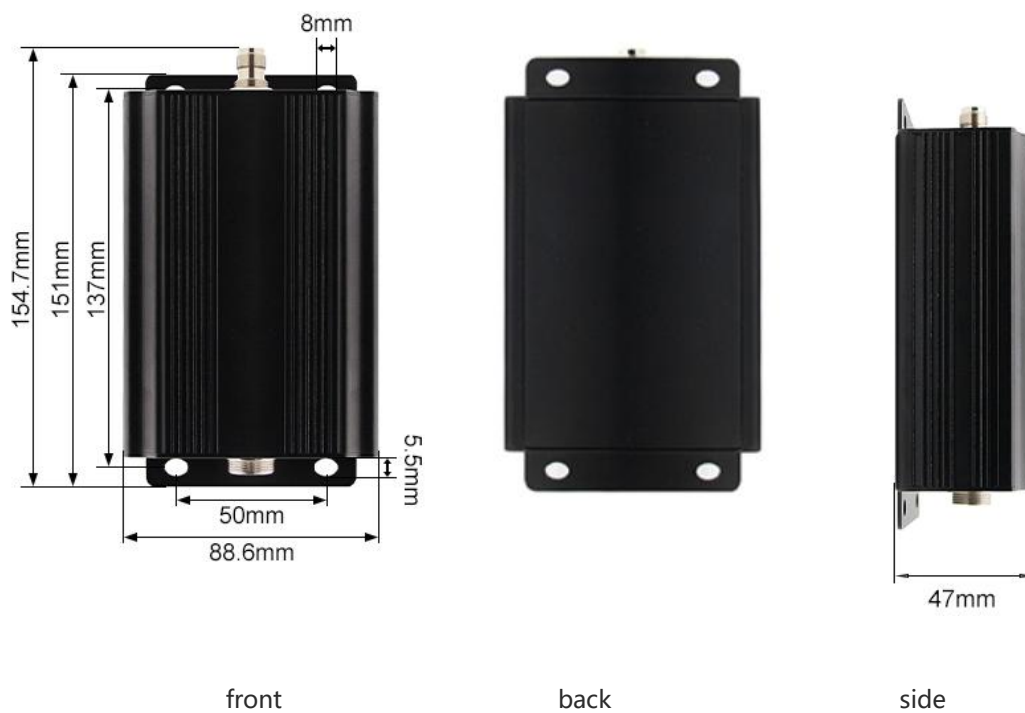
CF831-IP:RJ45+DC+GPI+GPO

Item	Note	Describe	Connector
light green	T+	Ethernet port sends differential signal TP	RJ45 female
yellow	T-	Network port sends differential signal TN	
brown	GND	Input signal ground	4Pin plug terminal
pink	R+	The network port receives the differential signal RP	RJ45 female connector
grey	R-	The network port receives the differential signal RN	
black	GND	DC (9V-24V) power supply negative pole	DC5525 female
blue	GPI	Input signal (withstand voltage 6V, maximum current 60mA)	4Pin plug terminal
green	Output-	Output signal negative pole (withstand voltage 100V, maximum current 130mA)	
White	Output+	Output signal positive (withstand voltage 100V, maximum current 130mA)	
red	V+	DC (9V-24V) power supply positive pole	DC5525 female

3、Details display: LED indicators can observe the working status of the reader



4、product view



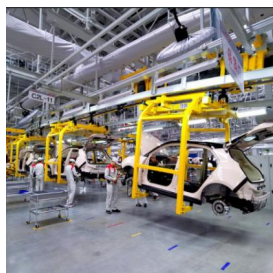
5、Product accessories Plug + power adapter*1 set Communication cable*1 (RS232, RS485, RJ45 optional)



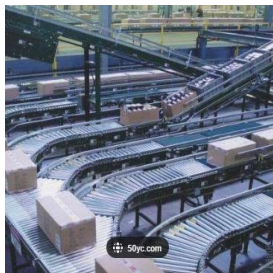
6、EVEN E710 fixed reader series

			
CF831 single channel Read distance 0-25M 155*88.6*47mm	CF832 dual channel Read distance 0-25M 155*88.6*47mm	CF815 four channels Read distance 0-25M 184*161.7*26mm	CF816 eight channels Read distance 0-25M 147.3*184*26mm

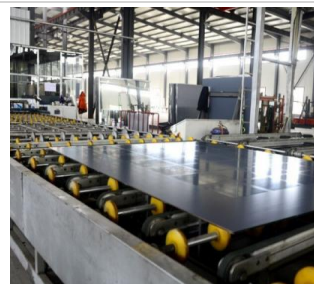
7、Application Scenario



Automobile production and assembly



Logistics sorting line



Mold production management



Warehouse management



Intelligent cabinet management



Logistics Management