



# Introduction

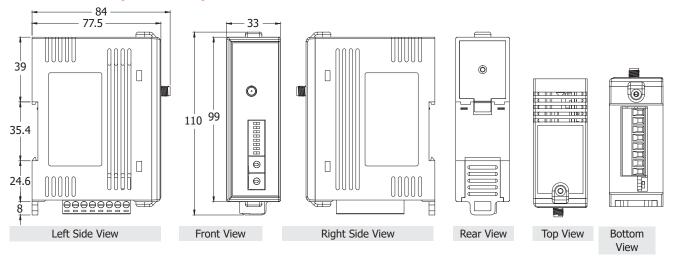
The RFU-433 is a RS-232 / RS-485 to 433 MHz radio modem. It can transfer the RS-232 / RS-485 data to RF messages with 433 MHz in transparent mode, and provides the maximum line of sight transmission distance 500 meters at 9600 bps RF Baud Rate. In order to overcome hash environments, the RFU-433 allows the configurable RF transmission baud to the minimum 650 bps to enhance the capability of resist the noise and disturbances. Moreover, the features of adjustable RF channels and Group IDs are helpful to avoid the interference by adjacent two RFU-433 networks. Users can easy to use 16 RF channels and 8 Group IDs to distinguish and control the different RFU-433 networks as they wish.



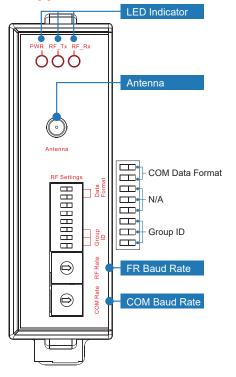
# Specifications

RF Interface		EMS Protection		
Radio Frequency	433.1000 MHz ~ 434.6000 MHz	ESD	±4 kV Contact	
Baud Rate	57600, 38400, 19200, 9600, 4800, 2400, 1200, 650 bps	EFT	±1 kV	
Transmission Power	Normal : 10 dBm , Max : 19 dBm	Surge	±1 kV	
Antenna	0 dBi Omni directional, RPSMA connect	Power		
	,	Input Voltage Range	+10 VDC ~ +30 VDC	
Transmission Distance (LoS)	500 m (9600 bps, output power 10 dBm)	Power Consumption	1 W (Max.)	
Group ID	0 ~ 7	Mechanism		
Protocols	Transparent transmit			
Temporary Buffer Size	512 Bytes	Flammability	Fire Retardant Materials	
LED Indicators		Dimensions (L x W x H)	107 mm x 33 mm x 83.1 mm (not include antenna)	
RF_Tx	Green	Antenna Dimensions (L x Ø)	108 mm x 10 mm	
RF_Rx	Yellow	Installation	DIN-Rail	
PWR	Red	Environment		
Isolation		Operating Temperature	-25°C ~ +75°C	
Intra-module Isolation	2500 Vrms by photocoupler	Storage Temperature	-30°C ~ +80°C	
	(RS-485 / RS-232 side )	Relative Humidity	10 ~ 90% RH (non-condensing)	

# Dimensions (Units: mm)

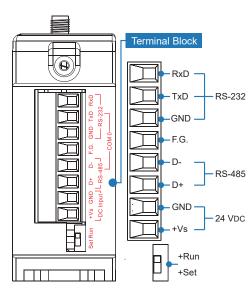


# **Appearance**



# 🖿 Utility

COM COM1	~ 115200 ~	bps [	Close			
roduct RFU-43.	3_V0302 CI	ear			Write Se	tting
Read Configurati	on		Write Configurati	ion		
Setting Function	Hardware Setting	$\sim$	Setting Function	Hardwar	e Setting	$\sim$
Channel	433.5000 MHz	$\sim$	Channel	433.500	0 MHz	$\sim$
Output Power	0x80 (Default)	$\sim$	Output Power	CE Defa	ult	~
Message Duty	Enable	~	Message Duty	Enable		~



#### **Ordering Information**

RFU-433 CR	RS-232/RS-485 to 433 MHz Radio Modem (RoHS)

#### Accessories

ANT-104-02	0 dBi 400 MHz External Antenna	
35001-1	RG58A/U 1 Meter Long RP-SMA male to RP-SMA Female	