



Features ISM 2.4 GHz Operating Frequency Direct Sequence Spread Spectrum (DSSS) RF technology Wireless Transmission Range up to 700 m (Default) RS-232/RS-485 Interface Supported Half-duplex communication up to 115200 bps Full-duplex communication up to 57600 bps Fully External Switch for the Hardware Configuration Surge and ESD Protection DIN-Rail Mountable

■ Introduction _____

The RFU-2400 is a 2.4 GHz radio frequency modem that also provides RS-232 and RS-485 port interfaces. It is designed to act as a wireless bridge that converts a signal between serial and wireless formats, and is useful for applications where it is inconvenient to install physical wiring. The RFU-2400 makes it easy to establish a low cost environment for data acquisition and control applications between a host and a range of remote sensors via wireless communication.

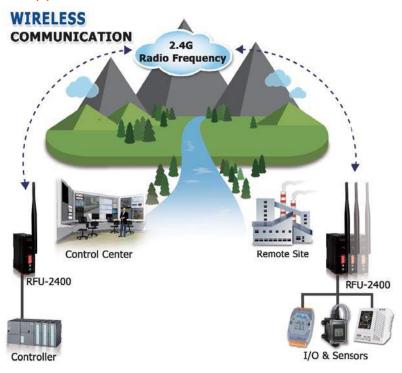
RoHS

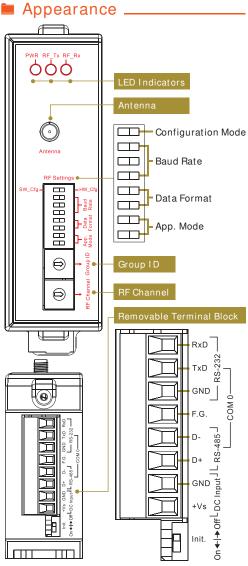
The RFU-2400 is a spread spectrum radio frequency (RF) modem based on the IEEE 802.15.4 standard. The IEEE 802.15.4 standard is operating on the ISM bands using a transmission frequency range of between 2405 and 2480 MHz that is separated into 5 MHz segments, thereby providing 16 channels. Two operating modes are also supported, including Peer-to-Peer (P2P) mode, where the distinguishing feature is that it allows full-duplex communication, and Broadcast mode, which allows half-duplex functionality in multi-point communication.

Specifications _____

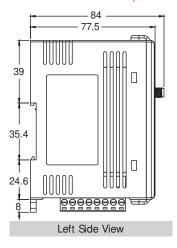
	Wireless			
Wireless	Modulation		OQPSK (Offset Quadrature Phase-shift Keying)	
	Spread Spectrum		DSSS (Direct-Sequence Spread Spectrum)	
	Channels		16	
	Sensitivity		-96 dBm	
	Transmission Power		11 dBm (Default): 19 dBm (Max.)	
	Antenna		2.4G - 5 dBi Omnidirectional Antenna	
	Transmission Range		700 m (Typical)	
Hardware	COM0			
	COM 0	RS-232	TxD, RxD and GND	
		RS-485	DATA+, DATA-; Internal ASIC Self-tuner; Non-isolated	
	Baud Rate	Full-duplex	2400 to 57600 bps	
		Half-duplex	2400 to 115200 bps	
	Data Format		N81, O81, E81, N82	
	Buffer		2560 Bytes	
	LED Indicate	ors		
	Green		RF TxD Status	
	Yellow		RF RxD Status	
	Red		Power Status	
	Power			
	EMS Protection		ESD, Surge, EFT and Hi-Pot	
	Required Supply Voltage		+10 VDC ~ +30 VDC	
	Power Consumption		1 W (Max.)	
	Connection		8-pin 5.08 mm Removable Terminal Block	
	Mechanical			
	Casing		Plastic	
	Flammability		UL 94V-0 materials	
	Dimensions (L x W x H)		108 mm x 84 mm x 33 mm	
	Installation		DIN-Rail	
	Environment			
	Operating Temperature		-25 ~ +75°C	
	Storage Temperature		-40 ~ +80°C	
	Relative Humidity		0 ~ 90% RH, Non-condensing	

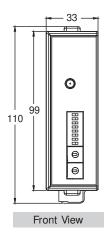
Applications _____

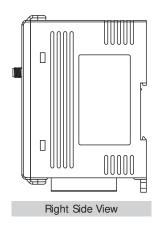


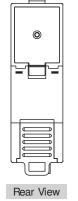


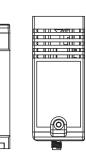
Dimensions (Units: mm) _____











Top View

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Bottom View

Ordering Information ____

RFU-2400 CR 2.4 G RS-232/RS-485 Wireless Modem (RoHS)

Accessories ______

External Antenna	2.4GHz External Antenna, RP SMA Male (Plug)	
Extension Cable	3S00 × -1, RG58A/U × Meter Long RP-SMA male to RP-SMA Female	