

## 3.2. 900 MHz Radio Modem

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DSSS RF Products



### Features

- Half-duplex up to 115200 bps
- Internal Self-Tuner
- ISM Band 900 MHz
- Typical wireless transmission range is 1000 meters (LOS)
- UI Configuration via external switch



### Introduction

The SST-900B is a radio frequency modem with an RS-232/RS-485 interface port and is designed for data acquisition and control applications between a host and remote sensors. It is also useful for those applications where the installation of cable wire is inconvenient. The SST-900B module is a wireless module that works in a frequency range of 902-928 MHz, and includes adjustable 16 RF channels and each channel can be allocated one of sixteen group IDs. The SST-900B can be used not only in peer-to-peer mode but also in a multi-point structure.

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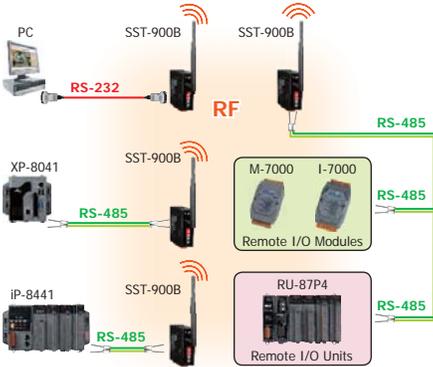
900 MHz Radio Modem

### Specifications

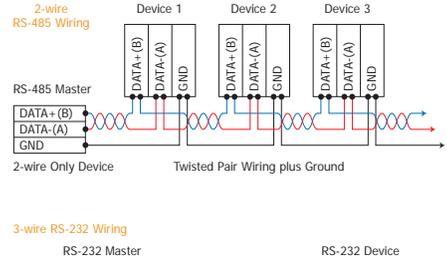
Models		SST-900B
<b>Wireless</b>		
Operating Frequency Range		915 MHz (902 MHz – 928 MHz)
Channel Spacing		1.5 MHz
Transmit Power		3 dBm
Number of Channel		16
Transmission Range		Typical 700 m, Max. 1 Km
Data Bit Error Rate		@ -100 dBm
<b>Antenna</b>		
Type		3 dBi Omni-directional, bendable
Connector		Reverse Polarity SMA (RP-SMA) Plug (Male)
<b>Serial Link</b>		
Interface	RS-232	TxD, RxD, GND
	RS-485	D+, D-; internal self-tuner ASIC; Non-isolated
Max. Data Transfer Rate (Half-duplex Mode)		115200 bps
Data Format		N, 8, 1 or E, 8, 1
<b>Power</b>		
Operating Voltage		+10 Vdc – +30 Vdc
<b>Mechanical</b>		
Dimensions (W x H x D)		84 mm x 107 mm x 33 mm
<b>Environment</b>		
Operating Temperature		-25 °C – +70 °C
Storage Temperature		-40 °C – +80 °C
Humidity		0% – 90% RH, Non-condensing

SST-900B

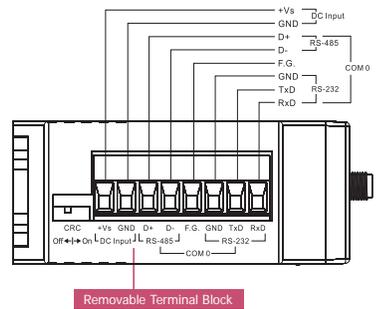
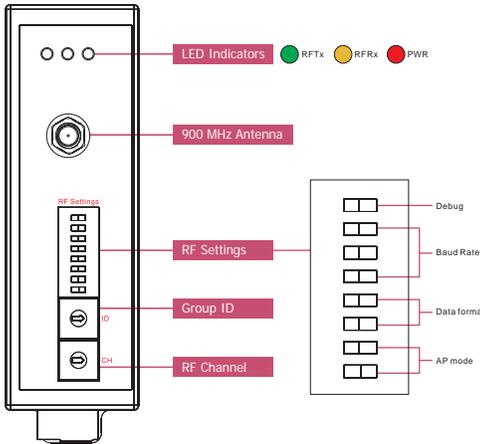
Applications



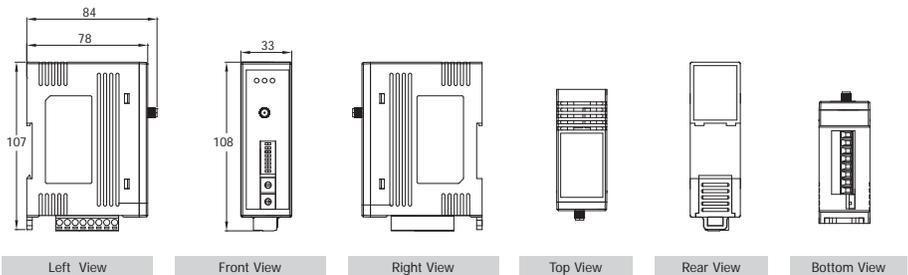
Wiring



Pin Assignments



Dimensions (Units: mm)



Ordering Information

SST-900B	900 MHz Wireless Modem
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