



High quality data acquisition and embedded control products.

SST-2450: 2.4GHz RF Modem with RS-232/RS-485



SST-2450EXT is a spread spectrum radio modem with controlling an RS-232/RS-485 interface port. It 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-2450 can be used not only in peer-to-peer mode (refer to page 8), but also in a multi-point structure. The SST-2450 is based on a direct sequence spread spectrum and RF technology, operating in the ISM bands with a Frequency Range of 2410.496MHz~2471.936MHz. The Channel Spacing is 4.096MHz.

FEATURES

- Bendable Antenna
- Half-duplex up to 57600bps
- Auto band -rate setting
- ISM band
- Full-duplex or half-duplex
- Spread Spectrum technology
- Din Rail Mount

SPECIFICATIONS

- Frequency Range: 2.4GHz (2410.496MHz ~ 2471.936MHz)
- Channel Spacing: 4.096MHz
- Output Power: 0.05W
- Transmit power : 17dBm±dBm
- Modulation technique: GMSK
- Radio technique: Direct sequence spread spectrum
- Duplex Mode: TDD (for Full-duplex)
- Number of channels: 16
- Number of PN codes: 16
- PN code rate: 1.365 Mchips /sec.
- Communication distance: Depends on external antenna; default is 300M
- Max. data transfer rate in asynchronous mode: Full-duplex: 9.6Kbps, Half-duplex: 28.2K
- Maximum data transfer rate in synchronous mode: Full-duplex: 19.2Kbps, Half-duplex: 57.6K
- Setting Method: Software setting
- Connector : Reverse-Polarity SMA-Jack
- Data Format: N, 8, 1 or E, 8, 1 (dependent on software setting)
- Data bit error rate Antenna: < 1/1000@ - 102dBm
- Input voltage: 10 ~ 30Vdc
- Input current: Typically less than 250mA
- Consumption: Transmission : 2W, Receive : 1W
- Size: 106mm x 76mm x 31mm (L x W x H)
- Weight: 200g
- Operating temperature: -10°C ~ 50°C
- Operating humidity: 0 ~ 90%

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