

SST-2450 Wireless Module RS232/485 interface



Introduction

SST-2400EXT is a spread spectrum radio modem with RS-232/RS-485 interface port. It is designed for data acquisition and control application between host and remote sensors. It is also useful for those applications, the cable wire is inconvenient to be installed. The SST-2450 can be used in not only peer to peer mode but also multi-point structure. Based on direct sequence spread spectrum and RF technology operating in ISM bands. The Frequency Range is 2410.496MHz~2471.936MHz. The Channel Spacing is 4.096MHz.

Basically the SST-2450 is the same with SST-2400. The most different is the setting method. SST-2400 is set by jumper, and the SST-2450 is set by software utility.

The new SST-2450 can also work together with this SST-2400 if you change the inside 8051 chip of SST-2450. Just contact us, then we will ship a new chip which is with a new firmware.

Features

- Half-duplex up to 57600bps
- Auto band -rate setting
- ISM band
- Full-duplex or half-duplex
- Spread Spectrum technology

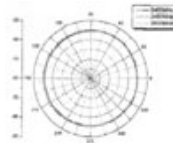
Application

- Press < [here](#) > to see the Wireless Application.

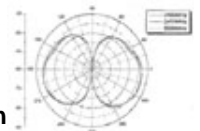
- **Frequency Range : 2.4GHz (2410.496MHz ~ 2471.936MHz)**
- Channel Spacing : 4.096MHz
- Output Power : 0.1W
- Transmit power : 19dBm?g2dBm
- Modulation technique : GMSK
- Radio technique: Direct sequence spread spectrum
- Duplex Mode: TDD (for Full-duplex)
 - Number of channel: 16
 - Number of PN code: 16
 - PN code rate: 1.365 Mchips /sec.
 - Communication distance: Depend on external antenna, default is 300M
 - Maximum data transfer rate in asynchronous mode :
 - Full-duplex mode : 9.6Kbps
 - Half-duplex mode : 28.2K
 - Maximum data transfer rate in synchronous mode :
 - Full-duplex mode : 19.2Kbps
 - Half-duplex mode : 57.6K
- Setting Method : Software setting
- Antenna: Can bend
- Data Format: N,8,1 or E,8,1 dependent on software setting
- Data bit error rateè Antenna : < 1/1000@ -102dBm
- Input voltage : 10~30V DC
- Input current : Typical then 250mA
- Consumption : Transmission : 1.5W
Receive : 0.5W
- Size : 106mm (L) x 76mm (W) x31mm (H)
- Weight : 200g
- Operating temperature : -10°C ~50°C
- Operating humidity : 0~90%
- SST-2450 can work together with SST-2400(Change the 8051 chip of SST-2400).

Gain Pattern

Gain Pattern



H-Plane for Vertical Polarization



E-Plane for Vertical Polarization

Ordering Information

SST-2450	2400MHz wireless modem Output Power: 0.1W Communication distance: depend on external antenna
Option	
ANT-3	1Km external antenna for SST-2450
ANT-8	1Km external antenna for SST-2450
ANT-12P	5Km external antenna for SST-2450