

Wireless Modem Industriali



Radio Modem Wireless - 9600 baud - License Free 2.4 Ghz

RS232/485 Switch Selectable Interface

Facile comunicazione tra dispositivi seriali e semplice installazione con wireless communications link. License-free Internationally a 2.4Ghz spread spectrum mode.

CE

Overview

Il Modem X24 è stato progettato per una facile installazione anche da utenti finali e può operare senza licenza di comunicazione secondo gli standar ETS-Europe fra apparati.

Systems integrators impiegato nelle comunicazioni seriali, switch, indicator lights, high quality antenna, mounting plate and flexible power supply inputs.

Il Modem X24 transceiver modules integra un supporto per multi-drop networking protocols. Diversi ed indipendenti reti possono operare nelle vicinanze utilizzando diversi identifiers. Il sistema radio si integra facilmente e semplicemente con nuovi o esistenti progetti.

Semplice interfaccia seriale con qualunque microcontrollore con RS232 o RS422/485 ed invia via radio (spread spectrum) i dati verso ricevitori appartenenti alla stessa rete. Il sistema lavora come un virtual half-duplex parallel-wired network.

Features

Best sensitivity in industry for low cost and extended transmission range.

Low power consumption. Suitable for battery powered applications.

Small size.

Easy to integrate. No knowledge of RF necessary. Simple networking protocol.

Standard serial digital interface. Interfaces with any microcontroller.

Reliable data transfer performance.

Choice of on-board or external antennas.

FCC-approval to make no further licensing required.

General

Radio Frequency 2.4000-2.4835 Hz, unlicensed ISM band

Type Frequency hopping spread spectrum transceiver

Frequency Control Direct FM

Network Topology Point-multipoint and point-to-point multi-drop transparent networking

Channel Capacity 65,000 network Identifiers share 25 hop channels

Serial Data Interface RS232 (RS422/485 available), DCE

I/O Data Rate Software selectable 2400-57,600 bps, 1200 bps available

Performance 24XStream-96 24XStream-192

R F Baud Rate 10,000 bps 20,000 bps

Data Throughput 9600 bps 19200 bps

Transmit Power Output 100 mw nominal 100 mW nominal

Rx Sensitivity -104 dBm -101 dBm

Indoor Range*: 150m to 375m

Outdoor Range*: 2.3k. with dipole, 7.5k. with gain antenna

Power Requirements

Supply Voltage 7-18 VDC

Current Consumption Tx 300 mA, R x 70 mA, Power Down <10 µA

Antenna

Antenna Connector Reverse-polarity SMA

Antenna Impedance 50 Ohms unbalanced

Approved Antenna 1/2 wave flexible whip (1.1 cm)

Reverse-polarity SMA, 2.1 dBi gain

Physical Properties

Enclosure Size 6.98 x 13.97 x 2.84 cm

Weight 195.61

Operating Temperature 0 to 70 °C (-40 to 85 °C available)

Operating Humidity 10 to 90% (non-condensing)