RADIOTRONIX™
life without wires

WI.232DTS-FCC-R™

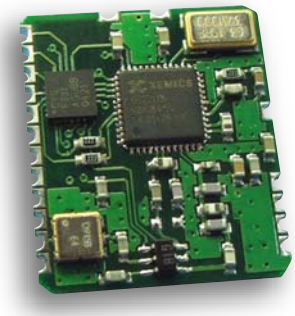
FCC approved Wireless Module
915 MHz, 152.34 kbit/sec.

DESCRIPTION

The Wi.232DTS-FCC-R™ features the popular Wi.232DTS-R™ embedded radio module in an FCC modular approved solution. It is designed to greatly simplify implementation of the Wi.232DTS-R™ module into a working design without the complications of FCC RF level testing. Radiotronix also offers a range of antennas that were certified for this product.

The Wi.232DTS-R™ module combines a state-of-the art low power wireless transceiver with a powerful multipoint-to-multipoint protocol controller to form a transparent wireless communication solution capable of replacing wires in almost any RS-232/422/485 application. With a 111 dB link budget and very low power operation modes, the Wi.232DTS-R™ module is excellent for Automated Meter Reading (AMR), RFID, Home Automation, and any other application requiring long range (<1500ft. , line of sight) and long battery life.

The transceiver operates in two modes; low power and DTS. In low-power mode, transmitter output power is 0 dBm and the maximum RF data is 76.8 kbit/sec. In DTS mode, the output power is +12 dBm and the maximum RF data rate is 152.34 kbit/sec.



Radiotronix also offers the Wi.DTS-USB™ FCC approved base station that communicates easily with the Wi.232DTS-FCC-R™ embedded modules for engineers requiring a fast monitoring solution.

FEATURES

1. Digital Transmission System (DTS) protocol
2. True UART to Antenna solution
3. FCC Modular approved
4. 152.34 kbit./sec. max RF data rate
5. 115 dB link budget
6. Straight and right angle connector options
7. Size 1.5" x 1.25"

SPECIFICATIONS

1. Frequency Band: 902 to 928 MHz
2. DTS Mode
   a. 32 Channels
   b. 100 kbps Max RF Data Rate (effective)*
   c. +12 dBm TX Power**
   d. -104 dBm Max RX Sensitivity***
3. LP Mode
   a. 84 Channels
   b. 19.2 kbps Max RF Data Rate (effective)*
   c. -3 dBm TX Power**
   d. -106 dBm Max RX Sensitivity***
4. Power
   a. VDD: 4 V to 12 V
   b. TX IDD- LP Mode: 28 mA
   c. TX IDD- DTS Mode: 57 mA @ +11 dBm
   d. RX IDD: 20 mA**
   e. Sleep/ Standby: 35 µA/ 850 µA
5. Operating temperature:
   -40 degrees C to 85 degrees C
6. FCC prescanned

*Single packet with overhead
**50 ohm load, VDD= 3.3 V
***measured @ 2400 baud

APPLICATIONS

Automated Meter Reading (AMR)
Oil and Gas detection sensing
Robotic and Industrial Controls
Cable replacement
Medical

CERTIFIED ANTENNAS

ANT-915-04A (Helical straight RPSMA connector)
ANT-915-02A (1/4 wave whip RPSMA connector)
ANT-915-07A (Helical right angle RPSMA connector)
ANT-915-06A (1/2 wave dipole RPSMA connector)

FCC CERTIFIED Wi.232DTS BASE STATION

Wi.232USB-DTS (Modular approved base station)

ORDERING INFORMATION

Wi.232DTS-FCC-ST-R	RPSMA CONNECTOR (straight)
Wi.232DTS-FCC--RA-R	RPSMA CONNECTOR (right angle)

REV. 002

Mouser Electronics

Authorized Distributor

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Linx Technologies:

TRM-915-DTS-FCC TRM-915-DTS-FCC-RA