

# Wi.USB-DTS<sup>TM</sup>

## Drop-In Embedded Wireless Module

915 MHz, 152.34 kbit/sec.

FCC ID: Q7V-3F090012X

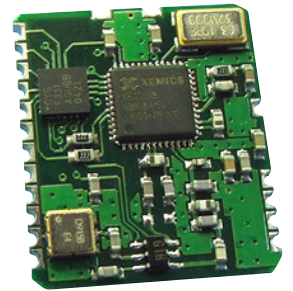


### DESCRIPTION

The Wi.USB-DTS<sup>TM</sup> is a convenient, FCC pre-authorized desktop unit that allows quick PC connectivity to a Wi.232DTS<sup>TM</sup> network. The Wi.USB-DTS<sup>TM</sup> is USB-powered and provides the same highly configurable, high-performance wireless link as our other Wi.232DTS<sup>TM</sup>-based products. The Wi.USB-DTS<sup>TM</sup> is perfect for: Wi.232DTS<sup>TM</sup> based sensor networks requiring PC/ Laptop Interface, point-to-point long-range PC/Laptop communications, AMR basestation/mobile unit is Wi.232DTS<sup>TM</sup> base meter network.

The Wi.232DTS<sup>TM</sup> 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<sup>TM</sup> module is excellent for AMR, RFID, Home Automation, and any other application requiring long range (<1500ft., line of sight) and long battery life.

The module is designed to be totally transparent. No special addressing or formatting of data is required. Data is validated using an internally generated CRC-16 and encoded using a proprietary algorithm. Multiple modules can operate on the same channel because of the built-in carrier-sense-multiple-access (CSMA) protocol.



### FEATURES

- FCC modular approved
- Full Wi.232DTS<sup>TM</sup> Functionality
- USB bus powered
- 4.5 - 16VDC Supply Voltage

### TYPICAL SPECIFICATIONS

Frequency Band 902 - 928 MHz

#### DTS Mode

Channels 32  
 Max RF Data Rate (effective) 94.6 kbps\*  
 TX Power +11 dBm\*\*  
 Max RX Sensitivity -104 dBm\*\*\*

#### LP Mode

Channels 84  
 Max RF Data Rate (effective) 19.2 kbps\*  
 TX Power -5 dBm  
 Max RX Sensitivity -106 dBm\*\*\*

#### Power

V<sub>DD</sub> 2.7 V - 3.6 V  
 TX I<sub>DD</sub>- LP Mode 28 mA  
 TX I<sub>DD</sub>- DTS Mode 57 mA @ +11 dBm  
 RX I<sub>DD</sub> 20 mA\*\*  
 Sleep/ Standby 100 µA / 850 µA

Temperature 40°C to +85°C

\*Single packet with overhead \*\*50 ohm load, V<sub>DD</sub> = 3.3 V  
 \*\*\*measured @2400 baud

### TYPICAL APPLICATIONS

- Automated Meter Reading
- Security Sensors
- Remote Control
- Medical
- Toys

#### ORDER CODE

Wi.USB-DTS