



## Evaluation Wireless Module

868 MHz, 152.34 kbit/sec.

### DESCRIPTION

The Wi.232EUR-EVM™ features the popular Wi.232EUR-R™ embedded radio module in an evaluation design. It is pre-mounted on a small PCB with onboard antenna connector and power supply regulator.

The Wi.232EUR-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 120 dB link budget and very low power operation modes, the Wi.232EUR-R™ module is excellent for Automated Meter Reading (AMR), RFID, Industrial Controls, Wireless Sensing, and Wire Replacement applications with long range (<1,600ft., line of sight) and long battery life.

The transceiver operates in two modes; narrowband and wideband. In narrowband mode, transmitter output power is +12 dBm and the maximum RF data is 38.4 kbit/sec. In wideband mode, the output power is +12 dBm and the maximum RF data rate is 76.8 kbit/sec.



### APPLICATIONS

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

### STANDARD EVALUATION ANTENNAS

ANT-868-02A (1/4 wave whip SMA connector)  
ANT-868-01A (Helical straight RPSMA connector)

### FEATURES

1. Digital Transmission System (DTS) protocol
2. True UART to Antenna solution
3. Pin compatible with FCC modules
4. 76.8 kbit./sec. max RF data rate
5. 115 dB link budget
6. Straight (ST) antenna connector
7. Size 1.5" x 1.25"

### SPECIFICATIONS

1. Frequency Band: 868 to 870 MHz
2. Wideband Mode
  - a. 2 Channels
  - b. 47.3 kbps Max RF Data Rate (effective)\*
  - c. +12 dBm TX Power\*\*
  - d. -104 dBm Max RX Sensitivity\*\*\*
3. Narrowband Mode
  - a. 6 Channels
  - b. 23.65 kbps Max RF Data Rate (effective)\*
  - c. +12 dBm TX Power\*\*, ♦
  - d. -106 dBm Max RX Sensitivity\*\*\*
4. Power
  - a. VDD: 2.7 V to 3.6 V
  - b. TX IDD- Narrowband: 28 mA
  - c. TX IDD- Wideband: 57 mA @ +12 dBm
  - d. RX IDD: 20 mA\*\*
  - e. Sleep/ Standby: 35 µA/ 850 µA
5. Operating temperature:
  - 40 degrees C to 85 degrees C

\*Single packet with overhead

\*\*50 ohm load, VDD= 3.3 V

\*\*\*measured @ 2400 baud

♦max power allowed (ETSI regulations)

### ORDERING INFORMATION

Wi.232EUR-EVM	Evaluation Module
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