Fast-switching, Long Range, Wireless Link for Industrial & Commercial Applications

Leading low power radio manufacturer Radiometrix Ltd has launched the new WFX2 radio Transceiver module. Ideally suited to industrial applications requiring long range and high-reliability, the WFX2 offers fast switching together with +27dBm (500mW) RF power output and ETSI Category 1 (Class 1) receiver performance. The WFX2 is available for operation in the 500mW 458.5-459.5MHz license-free Industrial/ Commercial Telemetry and Telecommand, Medical and Biological Applications band in the UK and Ireland.

This new 256-channel module features an exceptional RX-to-TX switching time (5ms), has a receive sensitivity of -118dBm and can achieve a usable range of over 5km over open ground. The feature rich interface offers analogue RSSI and both logic level and analogue baseband inputs and outputs. A 4-way internal channel select switch is standard. The compact WFX2 (85 x 55 x 13 mm) requires a regulated +5V DC power supply and is re-programmable via microcontroller UART interface, drawing 35mA in receive and under 400mA in transmit.

Multiple versions of the product are available; the standard 458MHz module offers data rates of up to 5kbps, the WFX2-458-G variant to be used with external 9600 baud GMSK Modem and a dedicated modem version, the WFZ2 has an internal M48 modem. A 12.5kHz narrowband version is also available.

The WFX2 is ideally suited to industrial applications including on-site paging, telecommand tasks, machine control, fast, long range data modems and robotic/ mechatronic control functions. This module is the latest addition to the exciting new range of High Power transceivers from Radiometrix which includes the SHX1-169-5 Transceiver on VHF frequencies and the FPX3-869-10, available on the pan-European 869.4-869.65MHz band. The module can be evaluated easily using the Narrow Band Evaluation Kit. Conforms to ETSI EN 300 220-2 Category 1 (radio) and EN 301 489-3 (EMC) standards and available on custom UHF frequencies.

For more information on the company, please visit our website: www.radiometrix.com [1].

July 31, 2012

Source URL (retrieved on *03/09/2014 - 5:56pm*):
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[1] http://www.radiometrix.com