

RFM Trade Release

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RF MONOLITHICS EXPANDS ITS LINE OF ULTRA-LOW-POWER SHORT-RANGE RADIOS TO INCLUDE NEW SINGLE CHIP RFIC TRANSCEIVER

Company Launches Introductory Offer on Development Kits to Showcase Product Superiority

DALLAS, TEXAS, (November 1, 2007) RF Monolithics, Inc. [NASDAQ: RFMI] (RFM) announced the newest transceiver in RFM's line of short-range radio devices, the ultra low-power single chip radio frequency integrated circuit (RFIC) TRC103. The leader in achieving ultra low-power in high performance radio devices, RFM's portfolio includes proprietary RF devices with as little as 1.8 mA receive current – the lowest in the industry. Likewise, the RFM TRC103 is a proprietary, ultra low-power UHF radio transceiver with a low receive current in the 3 mA range, combined with a powerful transmitter at +13dBm power output. Plus, the TRC103 uniquely includes a differential, common input/output and digital feature set that streamlines design integration.

“We designed the new TRC103 with a differential input/output and a rich set of digital features to make it easier and faster for design engineers to integrate a wireless link into their applications but without compromising on low-power consumption,” said Larry Miller, Product Manager of RFM Low Power Products Group. The differential output improves power utilization and minimizes the number of external components. This combination also makes for a less complex

board layout in the TRC103 that further simplifies design integration and ensures a lower overall system cost for the OEM end product.

The TRC103 is a highly programmable device making it flexible for a wide variety of applications. The device supports both frequency-shift keying (FSK) modulation and on-off keying (OOK) modulation with programmable data rates for FSK ranging from 1.56 to 100 kbps (with receiver sensitivity of -104 dBm at 25 kbps) and for OOK ranging up to 32 kbps (with receiver sensitivity of -110 dBm at 2 kbps).

Applications

The TRC103 is optimized for wireless solutions in the unlicensed industrial, scientific and medical (ISM) frequency bands (868-870 MHz, 902-928 MHz and 950-960 MHz) where low power consumption to enhance battery life is of primary importance. The TRC103 meets regulatory standards for both Europe (ETSI EN 300-220-1) and North America (FCC parts 15.247 and 15.249). Applications include remote bar code data entry, automated meter reading and sub-metering, point-of-sale terminals, medical monitoring systems, home automation, security and alarm systems, consumer sports, data link equipment, wireless thermostats, commercial building automation and control, and industrial and commercial M2M wireless sensor networks.

Key digital features that streamline integration:

- 1) 64-byte FIFO for transmit / receive data buffering and transfer via SPI bus
- 2) Programmable Training Preamble – up to 32 bit
- 3) Integrated Frame Check Sequence or CRC (ISO 3309) – 16 bit minimum
- 4) Digital RSSI support
- 5) Integrated Data and Clock Recovery

Additional performance features:

- 1) FHSS capable
- 2) Multi-channel operation
- 3) Supply voltage: 2.1V-3.6V
- 4) TX current: 16mA @1dBm typical; 25mA @+10dBm typical

- 5) Sleep Mode Current: 0.3 uA typical
- 6) Packet handling features: packet filtering, packet formatting, variable packet length
- 7) Integrated DC balanced encoding/decoding (Choice of Manchester or Data Whitening)
- 8) Interrupt signal pin mapping function
- 9) SPI interface
- 10) Programmable pattern recognition – up to 32 bits
- 11) Double conversion architecture
- 12) Generic 12.8MHz crystal reference
- 13) Small package size 5X5mm

Introductory Offer

To demonstrate the TRC103 superiority, RFM is offering a \$100 introductory discount to the first 500 customers who pre-order the TRC103 Development Kit shipping this fall. These first 500 introductory customers will also immediately receive a sample of the TRC103. Said RFM's Miller, "We are making this introductory offer because we are confident that the TRC103 will exceed design engineers' expectations for a low-power, high performance RFIC that greatly improves their speed-to-market." The offer expires November 15, 2007. To take advantage of this introductory offer, contact your local RFM representative or visit www.rfm.com.

About RFM

RFM, headquartered in Dallas, Texas, is enabling the next generation of wireless applications with a solutions-driven, technology-enabled approach to wireless connectivity. RFM provides the connections to extend the edge of the Internet to communicate with the billions of unconnected machines through a broad range of low-power wireless solutions – from comprehensive industrial wireless sensor networks to high-performance RF components. RFM was named to *M2M Magazine's* "2007 M2M 100," a list of the most important and influential machine-to-machine technology providers. For more information on RF Monolithics, Inc., please visit the Company's websites at www.rfm.com.

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