New! 2.4 GHz ZigBee® Pro Module
Low-Cost, Long-Range, Multi-Purpose
Reliable Performance

ZPM3570

Tiny footprint of less than 0.63 in² includes ZigBee chip, PA, LNA, chip antenna, and 1MB datalogging flash memory

$31 Qty 1

Volume Discounts Available

HOME AUTOMATION	SMART ENERGY / ENERGY MANAGEMENT		BUILDING AUTOMATION
Automated Lighting	*Smart Thermostat*		*Smart Appliances*
Facilities Automation	*Security*	*Access Control*	*HVAC*
Flow / Temperature	*Gas / Water Meter*		*Smart eMeter*

EXCEPTIONAL PERFORMANCE AT A VERY LOW COST

The ZPM3570 is a low cost, long range, multi-purpose, ZigBee PRO module. The ZPM3570 provides a 250 kb/s RF data rate with +20dBm (100mW) RF power coupled with a receive sensitivity of -103dBm to provide exceptional range and performance all in an FCC, IC and ETSI certified module. The ZPM3570 module also includes a 1MB flash memory to accommodate data logging requirements.

The ZPM3570 is built around Ember's EM357 ZigBee RFIC coupled with a power amplifier and low noise amplifier to increase the RF transmit power and receive sensitivity. The 100mW coupled with the -103dBm receive sensitivity provides exceptional range. The on-module antenna keeps device costs low by eliminating the cost of a separate antenna.

ZigBee PRO Smart Energy and Home Automation

The two areas where ZigBee is developing significant traction is in the Smart Grid and Energy Management arenas. The ZMN3570 supports these applications through its support of the ZigBee Smart Energy and Home Automation profiles. An intuitive API simplifies connecting the ZPM3570 to an application processor to quickly implement products providing vendor interoperable Smart Energy and Home Automation operation. OEMs wishing to implement their own application in addition to the ZigBee stack can take advantage of the 32-bit M3 Coretex ARM processor in the module. This can eliminate the need for any separate application co-processor.
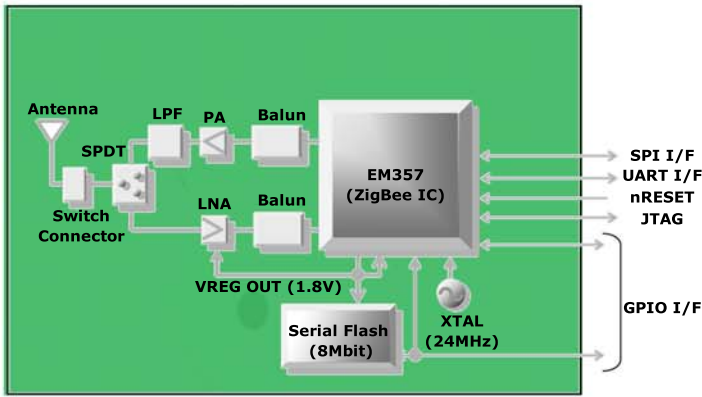
1MB Flash Memory for Datalogging

Included in the price and size of the module is a 1 MB flash memory. Unlike other modules where external memory is required to provide the datalogging functionality, the ZPM3570 has it on the module. One less thing for the designer to worry about.

Small Size

At less than 0.63 square inches in area, the ZPM3570 is unsurpassed in providing a complete ZigBee PRO solution, with on-module chip antenna, and 1MB flash in such a small footprint. For many devices that need ZigBee PRO functionality, size is critical and real estate is at a premium. The ZPM3570 really delivers on this account. In addition to the small footprint, the surface mount design of the ZPM3570 eliminates the need for costly, in both dollars and board area, connectors.

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The ZPM3570 is Built Around Ember's EM357 ZigBee RFIC

- Coupled with a power amplifier and low noise amplifier to increase the RF transmit power and receive sensitivity.

- The 100mW coupled with the -103dBm receive sensitivity provides exceptional range.

- The on-module antenna keeps device costs low by eliminating the cost of a separate antenna.

- 2.4 GHz DSSS 802.15.4 Transceiverr

- Point-to-Point, Point-to-Multipoint, Peer-to-peer, and Mesh

- Transmitter Power of 100mW(+20dBm)

- Receive Sensitivity of -103dBm

- Over-the-air module programming and configuration

- Smart Energy and Home Automation Profiles

- 128-Bit AES Encryption

- UART and SPI ports; Analog and Digital I/O for Sensor Applications

- 1MB flash memory to accommodate data logging requirements

- FCC, Canadian IC, and ETSI Certified for Unlicensed Operation

Fast-track your design -- order a Developer Kit! (Available June 15, 2011)

- Everything you need to get a ZigBee PRO network going in less than 10 minutes

- Two development boards providing a simple means to interface to your device and showcasing the features of the ZPM3570

- Utility programs that demonstrate network operation and performance

- Documentation to speed integration of the ZPM3570 into your product

ZPM3570DK CONTAINS:

- (2) ZPM3570 development boards
- (2) USB and 2 Serial Cables
- 9V Batteries and Wall-mount Power Supplies
- Antennas and RF Cables
- Program CD with software and manuals
- Quick Start Guide

$199

How To Buy

RFM products are sold through a world-wide network of manufacturer's sales reps and distributors. Go to the RFM website at www.RFM.com and visit the "How to Buy" section to locate a sales / distribution partner near you.

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