

RFM 802.15.4, FHSS, Mesh Networking and 802.11



RFM offers a complete line of spread spectrum wireless products for industrial and factory applications. Using both patented frequency hopping technology and open-standard direct sequence technologies, these products fall in two categories: ready-to-use devices for systems integration, and design-in OEM modules for custom applications.

802.15.4 ZIGBEE PRO MODULES

RFM's ZPM3570 module is a standards-based wireless transceiver designed for Smart Energy and other short range wireless markets that require low power consumption, high transmit power (20 dBm typical) and high receiver sensitivity (-103 dBm). The ZPM3570 is based upon the IEEE 802.15.4 wireless network specification and includes the ZigBee PRO stack. The module can be used to develop applications supporting the ZigBee PRO Smart Energy and Home Automation application profiles. The ZPM3570 module operates in the 2.4 GHz unlicensed ISM frequency band for worldwide deployment.

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

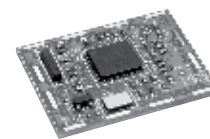


MOUSER STOCK NO.	RFM Part No.	Description	Transmit Power	Channels	Data Rate	Price Each	
						1	100
725-ZPM3570DK	ZPM3570DK	2.4GHz DSSS 802.15.4 Dev. Kit	100mW	-	250 kb/s	174.12	-
Development Kits							
725-LPR2430-C	ZPM3570-C	2.4GHz DSSS 802.15.4	100mW	-	-	31.00	30.00
725-ZPM3570-E	ZPM3570-E	2.4GHz DSSS 802.15.4	100mW	-	-	31.00	30.00

802.15.4 PRODUCTS

RFM's LPR2430 Series of 802.15.4 2.4GHz modules is comprised of the low-power LPR2430/LPR2430A and the extended range LPR2430ER/LPR2430ERA. The RFM LPR2430 Series modules are easy to integrate and provide robust wireless communications in applications where meshing is not needed or desired.

MOUSER STOCK NO.	RFM Part No.	Description	Transmit Power	Channels	Data Rate	Price Each	
						1	100
725-LPR2430	LPR2430	2.4 GHz Transceiver Module, Low-Power	1 mW	16	250 kbps	22.53	22.16
725-LPR2430A	LPR2430A	2.4 GHz Transceiver Module, Low-Power, with Chip Antenna	1 mW	16	250 kbps	23.18	22.79
725-LPR2430ER	LPR2430ER	2.4 GHz Transceiver Module, Extended Range	10-100mW	15	250 kbps	36.00	33.75
725-LPR2430ERA	LPR2430ERA	2.4 GHz Transceiver Module, Extended Range, with Chip Antenna	10-100mW	15	250 kbps	37.50	35.50
Development Kits							
725-LPR2430DK	LPR2430DK	2.4 GHz 802.15.4 Development Kit for LPR2430 Transceiver Module	1 mW	16	250 kbps	299.00	-
725-LPR2430ADK	LPR2430ADK	2.4 GHz 802.15.4 Development Kit for LPR2430A Transceiver Module	1 mW	16	250 kbps	299.00	-
725-LPR2430ERDK	LPR2430ERDK	2.4 GHz 802.15.4 Development Kit for LPR2430ER Transceiver Module	10-100mW	15	250 kbps	299.00	-
725-LPR2430ERADK	LPR2430ERADK	2.4 GHz 802.15.4 Development Kit for LPR2430ERA Transceiver Module	10-100mW	15	250 kbps	299.00	-

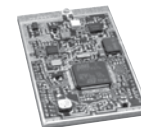


LPR2430 Shown

FREQUENCY HOPPING SPREAD SPECTRUM PRODUCTS

RFM FHSS transceiver modules are based on RFM proprietary technology to ensure secure, error-free delivery of data that is desirable in industrial and factory environments.

MOUSER STOCK NO.	RFM Part No.	Description	Transmit Power	Channels	Data Rate	Price Each	
						1	100
725-DNT900P	DNT900P	900MHz Transceiver Module with I/O	1mW to 1W	50	500kbps	69.00	67.13
725-DNT900C	DNT900C	900MHz Transceiver Module with I/O	1mW to 1W	50	500kbps	69.00	67.13
725-DNT2400P	DNT2400P	2.4GHz Transceiver Module with I/O	100 mW	50	38.4-500 kbps	69.00	67.13
725-WIT2410	WIT2410M4G	2.4GHz Transceiver OEM Module w/ Roaming Capability	10/100mW	75	460.8Kbps	259.00	254.00
725-WIT2410S4G	WIT2410S4G	2.4GHz Transceiver OEM Module	10/100mW	75	460.8Kbps	259.00	246.38
725-WIT2411D	WIT2411D	2.4GHz Transceiver OEM Module	10/100mW	43	1.23Mbps	425.00	416.08
Development Kits							
725-DNT900DK	DNT900DK	DNT900 Developer Kit	1mW to 1W	50	500kbps	359.00	-
725-DNT2400DK	DNT2400DK	DNT2400 Developer Kit	100 mW	50	38.4-500 kbps	359.00	-
725-WIT910DK	WIT910DK	WIT910 Developer Kit	10/100mW/1W	54	172.8Kbps	795.00	-
725-WIT2450DK	WIT2450DK	WIT2450 Developer Kit	40/100/250mW	95	460.8Kbps	495.00	-
719-WIT2410DK	WIT2410DK	WIT2410 Developer Kit	10/100mW	75	460.8Kbps	795.00	-

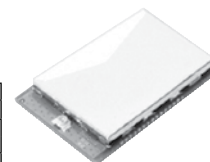


DNT2400P

TRANSCIVER MODULES

The DNT90 FHSS transceiver module provides a low-cost, versatile solution for wireless data communications in the 900 MHz ISM band. The DNT90 RF output power can be set at 40 or 158 mW. The DNT90 receiver input is protected by low-loss SAW filter, providing an excellent combination of receiver sensitivity and out-of-band interference rejection. The DNT90 module includes analog, digital and serial I/O, providing the flexibility to serve applications ranging from cable replacements to sensor networks. The DNT90 transceiver module is easy to integrate and provides reliable wireless communications up to 5 miles in line-of-sight installations.

MOUSER STOCK NO.	RFM Part No.	Description	Transmit Power	Channels	Data Rate	Price Each	
						1	100
725-DNT90P	DNT90P	900MHz 150mW Pinned Version	40/158mW	1	100bps	30.25	29.80
725-DNT90C	DNT90C	900MHz 150mW SMD version	40/158mW	1	100bps	30.25	29.80
Development Kits							
725-DNT90DK	DNT90DK	900MHz 150mW Dev Kit	40/158mW	1	100bps	199.00	190.80



WIRELESS MESH NETWORKING PRODUCTS

The 2.4GHz SmartMesh-XD Module is RFM's newest addition to their Wireless Mesh Networking products. The XDM2140 modules are based on DUST Networks' SmartMesh-XD™ technology and are designed to provide excellent communications reliability and long battery life in a wide range of sensor network applications.

MOUSER STOCK NO.	RFM Part No.	Description	Transmit Power	Channels	Data Rate	Price Each	
						1	100
Proprietary Mesh OEM RF Modules							
725-DM1810-434MB	DM1810-434MB	434MHz DM1810 Base Station	10mW	1	4800bps	35.00	33.00
725-DM1810-434MN	DM1810-434MN	434MHz DM1810 Field Node	10mW	1	4800bps	35.00	33.00
725-DM1810-434MN-V	DM1810-434MN-V	434MHz DM1810 Field Node Vertical Mount	10mW	1	4800bps	35.00	33.34
725-DM1810-434MR	DM1810-434MR	434MHz DM1810 Router	10mW	1	4800bps	35.00	33.00
725-DM1810-434MR-V	DM1810-434MR-V	434MHz DM1810 Router Vertical Mount	10mW	1	4800bps	35.00	33.34
725-DM1810-916MN-V	DM1810-916MN-V	916MHz DM1810 Field Node Vertical Mount	10mW	1	4800bps	35.00	33.34
725-DM1810-916MR-V	DM1810-916MR-V	916MHz DM1810 Router Vertical Mount	10mW	1	4800bps	35.00	33.34
Development Kits and Gateways							
719-DM1810-434-DK	DM1810-434-DK	434MHz DM1810 Development Kit	10mW	1	4800bps	495.00	-
719-DM1810-434-QK	DM1810-434-QK	434MHz DM1810 Quick Development Kit	10mW	1	4800bps	199.00	-
719-DM1810-916-DK	DM1810-916-DK	916MHz DM1810 Development Kit	10mW	1	4800bps	495.00	-
719-DM1810-916-QK	DM1810-916-QK	916MHz DM1810 Quick Development Kit	10mW	1	4800bps	199.00	-



XDM2140

802.11 PRODUCTS

RFM's WSN802G is a 2.4GHz IEEE 802.11g Radio Transceiver Module that enables OEMs to build low-power wireless local area networking (WLAN) and sensor monitoring solutions for the global market. The WSN802G delivers an exceptionally low power profile and long battery life capabilities in a fully functional, certified radio module that is easily interfaced to existing 802.11. b/g infrastructure for a wide variety of sensor monitoring and WLAN applications.

MOUSER STOCK NO.	RFM Part No.	Description	Transmit Power	Channels	Data Rate	Price Each	
						1	100
725-WSN802GP	WSN802GP	2.4GHz 802.11g Radio Transceiver Module	10mW	14	1 or 2Mbps	69.00	68.08
Development Kits							
725-WSN802GDK	WSN802GDK	2.4GHz 802.11g Development Kit	10mW	14	1 or 2Mbps	139.00	-
725-WSN802GDK-A	WSN802GDK-A	2.4GHz 802.11g Development Kit w/Router	10mW	14	1 or 2Mbps	199.00	-



WSN802G