

# RF and ZigBee™ Wireless Solutions and Kits



This product is RoHS compliant.



## FREESCALE RF POWER FIELD EFFECT MOSFETS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Case	VDSS (V)	POUT (W)	f (MHz)	VSWR@ 50Vdc, 230 MHz	V(BR)DSS (V Min.)	IDSS (µA Max.)	Gps (Typ.)	ηD (Typ.)	IRL (dB)	Price Each	
												1	25
841-MRFE6VP6300HR5	MRFE6VP6300HR5	465M	50	300	130	65:1	125	5	25	80	-15	97.22	82.22
841-MRFE6VP61K25HR5	MRFE6VP61K25HR5	NI-1230	50	1250	230	65:1	125	10	22.9	74.6	-15	262.45	237.64

## FREESCALE ZIGBEE WIRELESS SOLUTIONS

### MC1320x Family of Generation II Transceivers

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Channels	Package	Supply Voltage (V)	Frequency Band (GHz)	Serial Interface	Application	Communication Protocol	Price Each		
									1	25	100
841-MC13201FC	MC13201FC	16	1311 (QFN 32)	2 to 3.4V	2.4GHz	SPI	2.4GHz ISM	SIMPLE MAC	3.50	3.29	2.06
841-MC13202FC	MC13202FC	16	1311 (QFN 32)	2 to 3.4V	2.4GHz	SPI	2.4GHz ISM, 802.15.4	IEEE 802.15.4	4.11	3.87	2.42

### MC1321x Family of System in a Package (SIP)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Channels	Package	Supply Voltage (V)	Frequency Band (GHz)	MCU Memory	Application	Communication Protocol	Price Each		
									1	25	100
841-MC13211	MC13211	16	LGA, 71-pin	2 to 3.4V	2.4GHz	16KB	2.4GHz ISM	SIMPLE MAC	5.71	5.07	3.92
841-MC13212	MC13212	16	LGA, 71-pin	2 to 3.4V	2.4GHz	32KB	2.4GHz ISM, 802.15.4	IEEE 802.15.4	5.91	5.56	3.48
841-MC13213	MC13213	16	LGA, 71-pin	2 to 3.4V	2.4GHz	60KB	2.4GHz ISM, ZIGBEE	IEEE 802.15.4 or BeeStack	6.46	6.08	3.80

### MC1322x Platform in a Package (PIP)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Core	Flash	RAM / ROM	Channels	Package	Application	Communication Protocol	Price Each		
									1	25	100
841-MC13224V	MC13224V	ARM7	128K	96K / 80K	16	LGA, 99-pin	2.4GHz ISM Band	IEEE 802.15.4 MAC	8.68	8.18	5.12

## FREESCALE ZIGBEE DEVELOPMENT KITS

MOUSER STOCK NO.	Freescale Part No.	Description	Price Each	MOUSER STOCK NO.	Freescale Part No.	Description	Price Each
841-1320X-QE128-DSK	1320X-QE128-DSK	1320x QE Evaluation Kit	349.00	841-1322XUSB	1322XUSB	1322x USB Board	79.00
841-1320X-QE-DSK-BDM	1320X-QE-DSK-BDM	1320x QE Evaluation Kit with BDM Cable	399.00	841-13226PRO-DBG	13226PRO-DBG	13226 Zigbee Pro Kit	699.00
841-1320XRFC	1320XRFC	MC1320x RF Daughter Card	79.00	841-1323XDSK	1323XDSK	1323 Zigbee Developer Starter Kit	199.00
841-1321XDSK-BDM	1321XDSK-BDM	1321x Developer's Starter Kit with BDM	349.00	841-1323XDSK-BDM	1323XDSK-BDM	1323X Zigbee Developer Kit BDM	279.00
841-1322XDSK-DBG	1322XDSK-DBG	1322x Developer's Starter Kit with J-LINK	379.00	841-1323XNSK	1323XNSK	MC1323X Zigbee Development Kit	449.00
841-1322XNSK-DBG	1322XNSK-DBG	1322x Network Starter Kit with J-LINK	579.00	841-1323XNSK-BDM	1323XNSK-BDM	MC1323X Zigbee Network Development Kit BDM	529.00
841-1322XNSK-IAR	1322XNSK-IAR	1322x Network Starter Kit w/Baseline Version	2599.00				

## ATMEL ZIGBIT MODULES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Atmel Part No.	Description	Interface	Operating Voltage (V)	Price Each
556-ATZB-24-A2R	ATZB-24-A2R	2.4GHz Module with Dual Chip Antenna	UART, 12C, SPI	1.8 - 3.6	30.08
556-ATZB-24-B0R	ATZB-24-B0R	2.4GHz Module with Balanced RF Output	UART, 12C, SPI	1.8 - 3.6	27.80
556-ATZB-900-B0R	ATZB-900-B0R	784/868/915MHz 802.15.4 Module with Balanced RF Output	UART, 12C, SPI	1.8 - 3.6	27.13
556-ATZB-A24-U0R	ATZB-A24-U0R	2.4 GHz 802.15.4 Power Amplified Module with Unbalanced RF output	UART, 12C, SPI	3 - 3.6	48.38
556-ATZB-A24-UFLR	ATZB-A24-UFLR	2.4 GHz 802.15.4 Power Amplified Module with U.F.L Antenna Connector	UART, 12C, SPI	3 - 3.6	49.02

## GPS/GLONASS DIPLEXER



### Surface Mount Devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Freq. Bands Low/High (GHz)	Return Loss (Low/High Band (dB))	Price Each	
					1	10
511-DIP1524-01D3	DIP1524-01D3	FlipChip-4	1573MHz / 2.4GHz	10/20	.39	.35

## STMICROELECTRONICS BLUETOOTH® MODULES

### Features:

- Bluetooth® radio
- Fully embedded Bluetooth w/ profiles
- Complete RF ready module

- ST micro Cortex-M3 microprocessor up to 72 MHz
- Memory
- 256 kb Flash memory
- 48 kb RAM memory

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Operating Voltage (V)	I/O	Price Each
511-SPBT2532C2.AT2	SPBT2532C2.AT2	-0.3 to +5	4	32.50
511-SPBT2632C2A.AT2	SPBT2632C2A.AT2	2.1 to 3.6	7	33.50
511-SPBT2632C1A.AT2	SPBT2632C1A.AT2	2 to 3.6	16	34.50

## MURATA WIRELESS SYCHIP HIGH POWER ZIGBEE

### Features:

- Low power operation: Sleep-1.2µA
- Transmit- 165A@20dBm
- Receive - 31mA
- Allows customers to use the ARM Cortex M3 processor for their own applications
- Best-in-class radio receive sensitivity at -103dBm
- FCC certified



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Wireless Part No.	Processor	Freq. (GHz)	Output Power (dBm)	ADC	Antenna	Interface	Supply Voltage	Dimensions (mm)	Price Each		
										1	10	100
81-88-00143-00	88-00143-00	ARM Cortex M3	2.45	+20	6x14bit	Chip	12C, SPI, UART, GPIO	2.4 - 3.4	27.2x14.75	29.95	24.73	23.55
81-88-00144-00	88-00144-00	Ember EM357	2.4	20	6x14bit	External	12C, SPI, UART, GPIO	2.4-3.4	27.2x14.75x2.9	29.95	24.73	23.55
Development Kit										Description		
81-88-00143-85	88-00143-85	Evaluation Kit for SyChip SN3020 Zigbee Module - Includes 2 evaluation/development boards with SN3020 modules, 2 USB Cables, 1 RF Cable, and software								299.95	-	-
81-88-00144-85	88-00144-85	Evaluation Kit for SyChip SN3021 Zigbee Module								368.21	-	-

## MURATA WIRELESS WIFI/BLUETOOTH MODULE

Chipset provides 802.11b/g/n and Bluetooth v4.0 with Bluetooth Low Energy connectivity. Pre-integrated to run with OMAP, SITARA, DaVinci, and Integra processors

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Wireless Part No.	Package	Chipset	WiFi Output Power (dBm)	WiFi Sensitivity (dBm)	Bluetooth Sensitivity (dBm)	Antenna	Supply Voltage	Dimensions (mm)	Price Each		
										1	10	100
81-LBEE5ZSTNC-523	LBEE5ZSTNC-523	LGA-62	TI WL1271L	+20	-88	-92	U.F.L, Internal	2.7-4.3	17x10x2.2	23.50	21.75	20.25

## MURATA WIRELESS MODULES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Wireless Part No.	Processor	Radio Chipset	Freq. (GHz)	Output Power (dBm)	Receive Sensitivity (dBm)	Antenna	Interface	Supply Voltage	Dimensions (mm)	Price Each		
											1	10	100
81-88-00151-00	88-00151-00	STM32 ARM Cortex-M3	BCM43362	2.4	+17	-96	Internal	12C, SPI, UART, GPIO	2.4-3.6	30.5x19.4x2.9	26.95	25.00	23.50
81-LBWA1ZZVK7-TEMP-D	LBWA1ZZVK7-TEMP-D	-	TI CC3000	2.4	+19.5	-88	External	SPI	2.7-4.3	16.5x11.5x2.2	48.58	-	-
Development Kit										Description			
81-88-00151-85	Eval Module Wifi	Evaluation Kit for SyChip SN8200 WiFi Module								199.00	-	-	

## MURATA MAGICSTRAP® UHF RFID MODULES



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Wireless Part No.	Type	Frequency Range (MHz)	EPC (bits)	User Memory (bits)	TID (bits)	Dim. (mm)	Price Each
81-LXMS31ACNA-009	LXMS31ACNA-009	1	865-955	Up to 240	512	64	3.2x1.6x0.7 max	.81
81-LXMS31ACNA-010	LXMS31ACNA-010	2	865-955	Up to 240	512	64	3.2x1.6x0.7 max	1.42
81-LXMS31ACNA-011	LXMS31ACNA-011	3	865-955	Up to 240	512	64	3.2x1.6x0.7 max	1.42
81-LXMS31ACNA-012	LXMS31ACNA-012	4	865-955	Up to 240	512	64	3.2x1.6x0.7 max	1.42