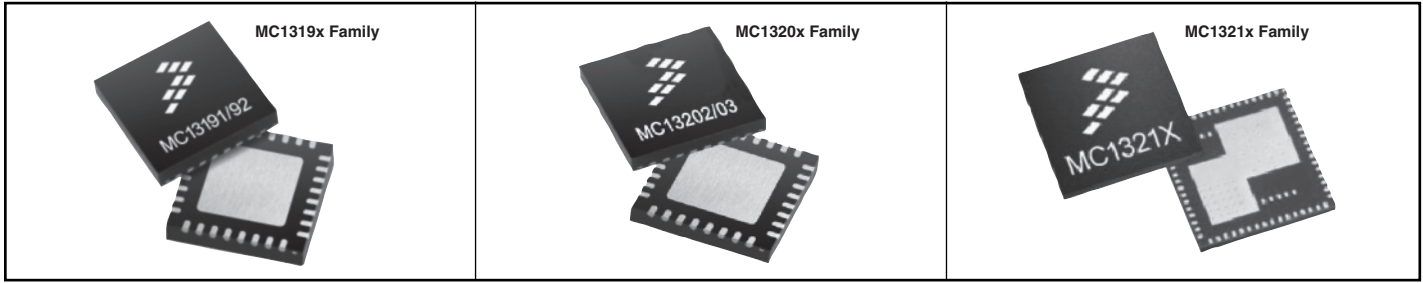


FREESCALE ZigBee™ Wireless Solutions and Kits



FREESCALE ZIGBEE WIRELESS SOLUTIONS

Freescale Semiconductor offers an extensive set of low cost wireless networking solutions, hardware and software, to provide you "A fast start to wireless networking". Consider using Freescale Semiconductor's Transceiver or System-in-Package (SiP) solutions for the following applications. Application spaces include, but are not limited to:

- Residential and Commercial Automation
- Industrial Control Applications
- Healthcare Products
- Consumer Products

MC1319x Family of Generation I Transceivers

The Generation I MC1319x and Generation II MC1320x families of transceivers may be utilized with Freescale's 8-bit or 32-bit MCU's. The transceivers in combination with the MCU and the selected MAC software provide a flexible set of wireless solutions to fit the customer's applications requirements in a cost-effective manner.

For quantities 250 and up, 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-MC13191FC	MC13191FC	16	1311 (QFN 32)	2 to 3.4V	2.4GHz	SPI	2.4 GHz ISM	SIMPLE MAC	3.10	2.87	2.56
841-MC13192FC	MC13192FC	16	1312 (QFN 32)	2 to 3.4V	2.4GHz	SPI	2.4 GHz ISM, 802.15.4	IEEE 802.15.4	3.66	3.39	3.02
841-MC13193FC	MC13193FC	16	1313 (QFN 32)	2 to 3.4V	2.4GHz	SPI	2.4 GHz ISM, ZIGBEE	ZIGBEE	4.42	4.08	3.65

MC1320x Family of Generation II Transceivers

The MC1320x family is a series of short range, low power, 2.4 GHz ISM band second generation transceivers. The MC1320x family contains a complete packet data modem compliant with the IEEE® 802.15.4 standard PHY (Physical) layer. The solutions also offer an integrated TX/RX switch for fewer components and lower cost BOM. When combined with an appropriate MCU, the MC1320x family provides a cost-effective solution for short-range data links and networks.

For quantities 250 and up, 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	2.4 GHz ISM	SIMPLE MAC	3.35	3.10	2.76
841-MC13202FC	MC13202FC	16	1311 (QFN 32)	2 to 3.4V	2.4GHz	SPI	2.4 GHz ISM, 802.15.4	IEEE 802.15.4	3.91	3.62	3.23
841-MC13203FC	MC13203FC	16	1311 (QFN 32)	3 to 3.4V	2.4GHz	SPI	2.4 GHz ISM, ZIGBEE	ZIGBEE	4.59	4.25	3.79

MC1321x Family of System in a Package (SiP)

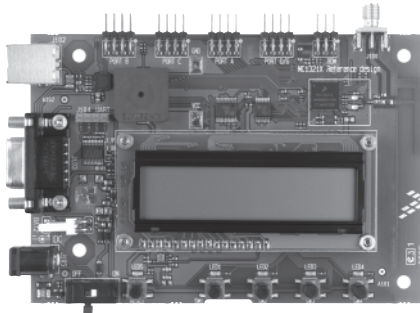
The MC1321x family is Freescale Semiconductor's ZigBee platform technology with a low power 2.4 GHz RF transceiver and an 8-bit MCU in a 71-pin LGA package. The MC1321x family also offers broad range of integrated peripherals and interfaces including I2C, SCI, Timers/PWM, KBI, as well as an 8 channel 10-bit ADC. The combination of the radio and microcontrollers, as well as the incorporation of key peripherals and functions, in a small footprint package allows for a cost-effective solution.

For quantities 250 and up, 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	2.4 GHz ISM	SIMPLE MAC	7.33	6.79	6.05
841-MC13212	MC13212	16	LGA , 71-pin	2 to 3.4V	2.4GHz	32KB	2.4 GHz ISM, 802.15.4	IEEE 802.15.4	8.02	7.42	6.62
841-MC13213	MC13213	16	LGA , 71-pin	2 to 3.4V	2.4GHz	60KB	2.4 GHz ISM, ZIGBEE	IEEE 802.15.4 or BeeStack	6.17	5.70	5.09

FREESCALE ZIGBEE DEVELOPMENT KITS

Freescale Semiconductor provides a range of comprehensive yet cost-effective development tools designed to provide developers with the necessary hardware and software required to evaluate and develop wireless solutions ranging from simple point-to-point networks to ZigBee mesh networks.



BeeKit™ Wireless Connectivity Toolkit

Freescale's BeeKit development environment for Windows operating systems provides a GUI in which users can create, modify, save and update wireless network solutions based on Freescale's Simple MAC (SMAC), IEEE 802.15.4 PHY/MAC and BeeStack ZigBee protocol stack. BeeKit provides a wizard and solution explorer that allows the user to quickly and easily configure parameters before creating the project, greatly reducing the need to sift through individual files and manually configure parameters. With the comprehensive code base of wireless networking libraries, application templates, and sample applications, the user generates the appropriate workspace files to be imported into an integrated development environment (IDE) for continued development and debugging.

Download your complimentary BeeKit at www.Freescale.com/Zigbee

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Description	Price Each
841-13192DSKE	13192DSK-A0E	1319x Developer's Starter Kit	228.15
841-13192EVB	13192EVB-A0E	1319x Evaluation Board	457.65
841-13192DSK-BDME	13192DSK-BDM-A0E	1319x Developer's Starter Kit with BDM	342.90
841-13192EVB-BDME	13192EVB-BDM-A0E	1319x Evaluation Board with BDM	515.70
841-1321XDSK	1321XDSK	1321x Developer's Starter Kit	269.03
841-1321XDSK-BDM	1321XDSK-BDM	1321x Developer's Starter Kit with BDM	377.40
841-1321XNSK	1321XNSK	1321x Network Starter Kit	540.73
841-1321XNSK-BDM	1321XNSK-BDM	1321x Network Starter Kit with BDM	620.58
841-1321XEVK	1321XEVK	1321x Evaluation Kit	1895.93