Freescale - 1322XNSK-DBG - Microcontroller Development Tool

Product Overview:

Freescale has created the most complete set of hardware platforms for evaluating the MC1322x Platform in Package™ (PiP), allowing the developer to select the hardware and software platform that best meets their needs. The development boards include LEDs, push buttons, connectors, header pins and a programming/debug port. The boards can be powered by batteries, a DC adapter or the USB port. The JTAG port allows easy programming of the MC1322x flash memory via the J-link JTAG debugger, which enables the users to program the MCU with a variety of sample applications included with the BeeKit software. The MC1322x development kits are the ideal platform for more complex IEEE® 802.15.4 and ZigBee applications by providing plenty of memory and expansion capabilities.

Kit Contents:

The1322X Network Starter Kit contains the hardware essentials you will need to use the 1322x-USB, 1322x-SRB, 1322x-NCB and 1322x-LPB module. The items in the Development Kit and their use are as follows.

- 1322x-SRB (Sensor Reference Board)
- 1322x-NCB (Network Coordinator Board)
- 1322x-LPB (Low Power Board)
- 1322x-USB (USB dongle and 802.15.4/ZigBee packet sniffer)
- J-Link JTAG Debugger
- 1322XNSK-IAR
- Batteries, Cables and Power Adapters

Key Features:

- MC13224 802.15.4 2.4 GHz PiP
- MMA7260Q three-axis acceleration sensor (1322X-SRB only)
- MPXV5010G pressure sensor (1322X-SRB only)
- Temperature sensor (1322X-SRB only)
- Printed F antenna
- SMA connector (1322X-NCB only)
- Color graphic LCD display (1322X-NCB only)
- Speaker
- Joystick, buttons and LEDs
- J-TAG interface for debug and programming
- Nexus debug interface (1322X-NCB only)
- Supports on-chip buck converter (1322XLPB only)
- Onboard expansion capabilities for external application-specific development
- LEDs and switches for demonstration monitoring and control
- Connections for battery or external power supply
- USB port to interface with PC
- Cables, batteries and power adapters
- Scalable software support for easy
- development of customer-specific
- network topologies

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
1322XNSK-DBG	Freescale	1749014	09P7848

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MC13224VR2	Freescale	MC13224V Advanced ZigBee™- Compliant Platform-in-Package (PiP) for the 2.4 GHz IEEE® 802.15.4 Standard	1693484	12N7146

MC13224V.	Freescale	MC13224V Advanced ZigBee™- Compliant Platform-in-Package (PiP) for the 2.4 GHz IEEE® 802.15.4 Standard	1693483	12N7145
MC33204DTBG	ON Semiconductor	Low Voltage, Rail−to−Rail Operational Amplifiers	1703205	42K0597
DAC101S101CIMK	NS	10-Bit Micro Power Digital-to-Analog Converter with Rail-to-Rail Output	1101196	65K5280
FT232RL	FTDI	USB UART I.C.	1146032	91K9918

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
1322XNSK-IAR	Freescale	1322X ZigBee EVK	1322X	1693481	09P7849

Document List:

Datasheets:

Part Number	Description	Size
MC1322X	MC13224V Advanced ZigBee™- Compliant Platform-in-Package (PiP) for the 2.4 GHz IEEE® 802.15.4 Standard	341KB
MC33204DTBG	Low Voltage, Rail−to−Rail Operational Amplifiers	265KB
DAC101S101CIMK	10-Bit Micro Power Digital-to-Analog Converter with Rail-to-Rail Output	437KB
FT232RL	USB UART I.C.	797KB

Application Notes:

File Name	Size
Methods for Upgrading Freescale BeeStack® Codebases	503KB
Running Freescale IEEE™ 802.15.4 Boards on MAC OS X Based Computers	404KB
MC1322x Flash Loader Utility (Second Stage Loader)	260KB
Reference Oscillator Crystal Requirements for the MC1319x, MC1320x, MC1321x, and MC1322x	125KB

Compact Integrated Antennas: Designs and Applications for the MC1319x, MC1320x, and MC1321x	551KB
Radio Frequency Module Land Grid Array	468KB

Hardware & Software:

File Name	Size
1322x Network Node Reference Manual	1889KB
1322x USB Dongle Reference Manual	624KB
1322x Sensor Node Reference Manual	1667KB
MC1322x Advanced ZigBee™- Compliant SoC Platform for the 2.4 GHz IEEE® 802.15.4 Standard Reference Manual	6253KB
1322x Low Power Node Reference Manual	1354KB
1322x-USB Sniffer Firmware	1186KB
Reference design for the 1322x Network Coordinator Board	5682KB
Reference design for the 1322x Low Power Board	2398KB
Reference design for the 1322x USB board	1793KB
Reference design for the 1322x Sensor Reference Board	4410KB

Others Resources:

File Name	Size
Freescale IEEE® 802.15.4 Development Kits Brochure	383KB