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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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NBWIFIUG

802.11b/g Wireless Module

100 Version



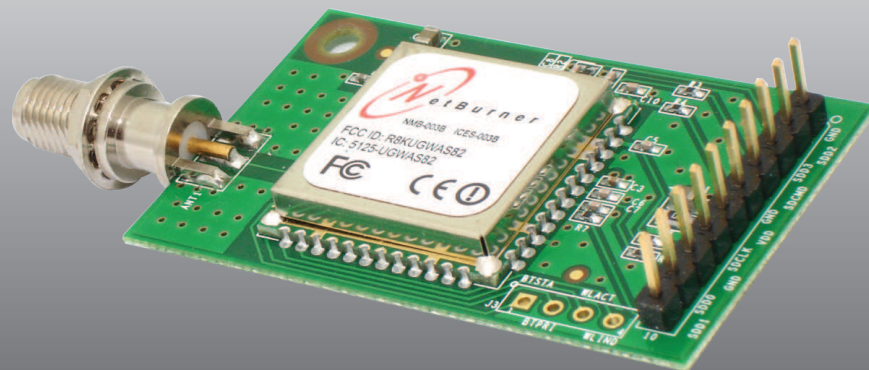
DATASHEET

Key Points

- Secure data communications with 64/128-bit WEP
- Wireless Standards: IEEE 802.11 b/g, 2.4GHz RF band mode PA

Features

- Compatible with NetBurner MOD5234, MOD5270, MOD5272 and MOD5282 Modules
- Modulation: OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM
- SPI Interface
- Operating range: -10° to 70°C



Hardware Specifications

Wireless Standards

- IEEE 802.11 b/g
- 2.4GHz RF band mode PA

Security

64/128-bit WEP

Modulation

OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM

Interface

SPI

Power

DC Input Voltage: 3.3V @ 160mA

Environmental Operating Temperature

-10° to 70°C

RoHS Compliance

The Restriction of Hazardous Substances guidelines ensure that electronics are manufactured with fewer environment harming materials.

Agency Approvals

UL, C/UL, CE, FCC



Compatibility

To use the NBWIFIUG-100CR 802.11b/g module, you will need a compatible module development kit:

NNDK-MOD5234-KIT, NNDK-MOD5234LC-KIT, NNDK-MOD5270-KIT, NNDK-MOD5270LC-KIT, NNDK-MOD5272-KIT, or NNDK-MOD5282-KIT.

The development kit must include a MOD-DEV-100 carrier board revision of 1.12 (or later) or a MOD-DEV-70 carrier development board revision 1.6 (or later). If you have a module development kit with a carrier board revision earlier than 1.12 (MOD-DEV-100) or 1.6 (MOD-DEV-70), you will need to purchase a new development kit.

Module Pinout and Signal Description

The NBWIFIUG-100CR Module has a 10-pin header which enables you to quickly and easily connect to your own carrier board. Table 1 provides descriptions of pin function of the module header.

Table 1: Module Header Pinout and Signal Descriptions

Pin	Silkscreen	SPI Signal	Module Signal	SPI Function
1	GND	GND	GND	Ground
2	SD02	Unused	-	-
3	SD03	SS	QSPI_[0:3]	Slave Select (Chip Select)
4	SDCMD	MOSI	QSPI_DOUT	Master Out / Slave In
5	GND	GND	GND	Ground
6	VDD	VCC	VCC	Supply Voltage 3.3V
7	SDCLK	SC(L)K	QSPI_CLK	Clock
8	GND	GND	GND	Ground
9	SD00	MISO	QSPI_DIN	Master In / Slave Out
10	SD01	IRQ	IRQ[3:7]	Interrupt

Note:

1. The NBWIFIUG-ADPT-100CR routes IRQ3 and QSPI_1 to be used as interrupt and slave select respectively.

Part Numbers

802.11b/g Wireless Module Development Kit

Part Number: NNDK-NBWIFIUG-KIT

Kit includes a NBWIFIUG-100CR module, an adapter board, and an antennae. A compatible NetBurner network development kit is required to use this product.

802.11b/g Wireless Module

Part Number: NBWIFIUG-100CR

Ordering Information

E-mail: sales@netburner.com

Online Store: www.Netburner.com

Telephone: 1-800-695-6828