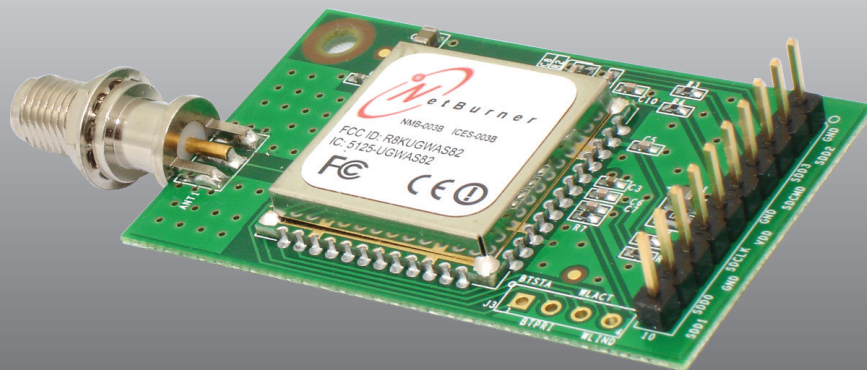# NBWIFIUG

802.11b/g Wireless Module
100 Version

NetBurner

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

Compatibality

To use the NBWIFIUG-100CR 802.11b/g module, you will need a compatable 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