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 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

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

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