

## **M.2 to MiniPCIe Adapter:** *SKU: OP3008250*

The adapter converts a 3042 B-Key M.2 module into a Mini Card form factor with MiniPCIe interface.

The adapter includes a MicroSD slot for extra memory. The MicroSD is visible as a USB device on the PCIx interface. There is a USB hub on the interposer card that connects to two USB devices: the modem and the MicroSD card.

### ***Revision 2***



*Image: Front side and back side of the M.2 to MiniPCIe adapter*

**GetWireless**

10250 Valley View Road, Suite 139  
Eden Prairie, MN 55344

[www.getwirelessllc.com](http://www.getwirelessllc.com)  
[support@getwirelessllc.com](mailto:support@getwirelessllc.com)  
952-890-6669

# Pinouts:

## PCIe Minicard Edge connector

| Pin nr | Signal      | Connects to    |
|--------|-------------|----------------|
| 1      | WAKE#       | WAKE#          |
| 3      | COEX1       | +3.3V uSD card |
| 5      | COEX2       |                |
| 7      | CLKREQ#     |                |
| 9      | GND         | GND            |
| 11     | REFCLK-     |                |
| 13     | REFCLK+     |                |
| 15     | GND         | GND            |
| 17     | UIM_IC_DM   | STOOK_EN       |
| 19     | UIM_IC_DP   | +3.3V uSD card |
| 21     | GND         | GND            |
| 23     | PERn0       |                |
| 25     | PERp0       |                |
| 27     | GND         | GND            |
| 29     | GND         | GND            |
| 31     | PETn0       |                |
| 33     | PETp0       |                |
| 35     | GND         | GND            |
| 37     | GND         | GND            |
| 39     | +3.3Vaux    | +3.3V module   |
| 41     | -3.3Vaux    | +3.3V module   |
| 43     | GND         | GND            |
| 45     | Reserved    |                |
| 47     | 47 Reserved |                |
| 49     | Reserved    |                |
| 51     | Reserved    |                |

| Pin nr | Signal     | Connects to  |
|--------|------------|--------------|
| 2      | +3.3V      | +3.3V module |
| 4      | GND        | GND          |
| 6      | +1.5V      |              |
| 8      | UIM_PWR    | UIM_PWR      |
| 10     | UIM_DATA   | UIM_DATA     |
| 12     | UIM_CLK    | UIM_CLK      |
| 14     | UIM_RST    | UIM_RST      |
| 16     | UIM_VPP    |              |
| 18     | GND        | GND          |
| 20     | W_DISABLE# | W_DISABLE    |
| 22     | PERST#     | PERST#       |
| 24     | +3.3Vaux   | +3.3V module |
| 26     | GND        | GND          |
| 28     | +1.5V      |              |
| 30     | SMB_CLK    |              |
| 32     | SMB_DATA   |              |
| 34     | GND        | GND          |
| 36     | USB_D-     | USBDU_DM     |
| 38     | USB_D+     | USBDU_DP     |
| 40     | GND        | GND          |
| 42     | LED_WWAN#  | LED_WWAN#    |
| 44     | LED_WLAN#  |              |
| 46     | LED_WPAN#  |              |
| 48     | +1.5V      |              |
| 50     | GND        | GND          |
| 52     | +3.3Vaux   | +3.3V module |

## M2 Edge connector

| Pin nr | Signal   | Connects to |
|--------|----------|-------------|
| 75     | CONFIG_2 |             |
| 73     | GND      | GND         |
| 71     | GND      | GND         |
| 69     | CONFIG_1 |             |
| 67     | RST#1    | PERST#      |
| 65     | ANTCTL3  |             |
| 63     | ANTCTL2  |             |
| 61     | ANTCTL2  |             |
| 59     | ANTCTL0  |             |
| 57     | GND      | GND         |
| 55     | REFCLK+  |             |
| 53     | REFCLK-  |             |
| 51     | GND      | GND         |
| 49     | PERP0    |             |
| 47     | PERN0    |             |
| 45     | GND      | GND         |
| 43     | PETP0    |             |
| 41     | PETN0    |             |
| 39     | GND      | GND         |
| 37     | SSRX+    |             |
| 35     | SSRX-    |             |
| 33     | GND      | GND         |
| 31     | SSTX+    |             |
| 29     | SSTX-    |             |
| 27     | GND      | GND         |
| 25     | GPIO12   |             |
| 23     | GPIO11   | WAKE#       |
| 21     | CONFIG_0 |             |
| 11     | GND      | GND         |
| 9      | USB_D-   | USBDN_DM    |
| 7      | USB_D+   | USBDN_DP    |
| 5      | GND      | GND         |
| 3      | GND      | GND         |
| 1      | CONFIG_3 |             |

| Pin nr | Signal         | Connects to  |
|--------|----------------|--------------|
| 74     | +3.3V          | +3.3V module |
| 72     | +3.3V          | +3.3V module |
| 70     | +3.3V          | +3.3V module |
| 68     | SUSCLK (32KHz) |              |
| 66     | SIM_DETECT     |              |
| 64     | COEX_1         |              |
| 62     | COEX_2         |              |
| 60     | COEX_3         |              |
| 58     |                |              |
| 56     |                |              |
| 54     |                |              |
| 52     |                |              |
| 50     |                |              |
| 48     | GPIO_4         |              |
| 46     | GPIO_3         |              |
| 44     | GPIO_2         |              |
| 42     | GPIO_1         |              |
| 40     | GPIO_0         |              |
| 38     | DEVSLP         |              |
| 36     | UIM_PWR        | UIM_PWR      |
| 34     | UIM_DATA       | UIM_DATA     |
| 32     | UIM_CLK        | UIM_CLK      |
| 30     | UIM_RST        | UIM_RST      |
| 28     | GPIO_8         |              |
| 26     | W_DISABLE2#    |              |
| 24     | GPIO_7         |              |
| 22     | GPIO_6         |              |
| 20     | GPIO_5         |              |
| 10     | GPIO_9         | LED_WWAN#    |
| 8      | W_DISABLE1#    | W_DISABLE    |
| 6      | CARD_PWR_OFF   |              |
| 4      | +3.3V          | +3.3V module |
| 2      | +3.3V          | +3.3V module |

|  | Signal             | Function                                 |
|--|--------------------|--|
| <b>Power</b>                                   | GND                | Ground                                   |
|  | +3.3Vaux           | 3.3V source                              |
|  | +1.5V              | 1.5V source                              |
| <b>User Identity Module Signals (SIM Card)</b> | UIM_PWR            | SIM card power                           |
|  | UIM_DATA           | SIM card data                            |
|  | UIM_CLK            | SIM card clock                           |
|  | UIM_RST            | SIM card reset                           |
| <b>PCI Express</b>                             | REFCLK-<br>REFCLK+ | PCI Express differential reference clock |
|  | PERn0/PERp0        | PCI Express receive signals              |
|  | PETn0/PETp0        | PCI Express transmit signals             |
| <b>Auxiliary Signals</b>                       | CLKREQ#            | Clock request                            |
|  | PERST#             | Reset for the Mini Card                  |
|  | W_DISABLE#         | Wireless disable                         |
|  | WAKE#              | Wake signal                              |
| <b>USB 2.0</b>                                 | USB_D-             | USB line negative                        |
|  | USB_D+             | USB line positive                        |

|  | Signal       | Function                                 |
|--|--------------|--|
| <b>Power</b>                                       | GND          | Ground                                   |
|  | +3.3V        | 3.3V source                              |
| <b>User Identity Module Signals (SIM Card)</b>     | UIM_PWR      | SIM card power                           |
|  | UIM_DATA     | SIM card data                            |
|  | UIM_CLK      | SIM card clock                           |
|  | UIM_RST      | SIM card reset                           |
| <b>Communication-specific signals</b>              | W_DISABLE#   | Wireless disable                         |
|  | WoWWAN#      | Wake-On-WWAN                             |
| <b>Supplemental communication-specific signals</b> | CARD_PWR_OFF | Turn off power                           |
|  | RST#         | Reset                                    |
|  | GPIO[0:11]   | General Purpose I/O                      |
| <b>USB 2.0</b>                                     | USB_D-       | USB line negative                        |
|  | USB_D+       | USB line positive                        |
| <b>USB 3.0</b>                                     | SSTX+        | SuperSpeed serial data transmit positive |
|  | SSTX-        | SuperSpeed serial data transmit negative |
|  | SSRX+        | SuperSpeed serial data receive positive  |
|  | SSRX-        | SuperSpeed serial data receive negative  |
| <b>Module Configuration Pins</b>                   | CONFIG[0:3]  | Module configuration                     |
| <b>SATA Interface signals</b>                      | DEVSLP       | Device Sleep                             |

### Ordering Information:

- PN OP3008250
- Custom versions available