



V2400 Series Wi-Fi & Cellular Accessory Package Quick Installation Guide

First Edition, November 2012

Overview

This guide shows you how to install cellular and Wi-Fi modules into the EPM-DK03/3338.

The EPM-DK03/3338 has 2 mini PCIe sockets that allow users to extend the V2400 communications with cellular or Wi-Fi cards. Users must purchase the cellular and Wi-Fi modules separately.

The figures to the right show the specific installation locations (on the cards) where the modules should be placed. Note that while both sockets provide a mini PCIe interface, socket 1 supports either mini PCIe or USB 2.0 signals, whereas socket 2 only supports USB 2.0 signals.

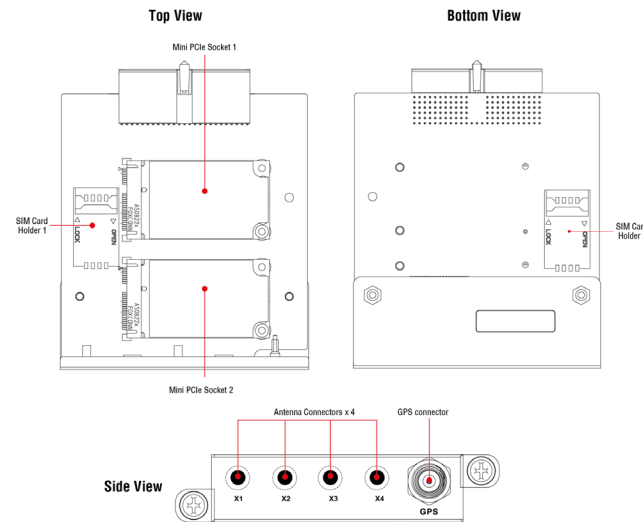
Package Checklist

Before installing, verify that the packages you have received contain the intended items:

- **The EPM-DK03 package should contain**
 - 1 EPM-DK03 expansion card
 - 1 quick installation guide (printed)
- **The EPM-3338 package should contain:**
 - 1 Sparklan WPEA-121N 802.11 a/b/g/n module
 - 1 WPEA-121N extender
 - 1 antenna jack with 2 RF cables
 - 1 Sierra MC8305 3G HSPA module
 - 1 thermal pad
 - 1 antenna jack, with 1 RF cable
 - 3 washers, 3 O-rings, 3 nuts, a mounting bracket, 2 silver screws, and 8 black screws

NOTE: Please notify your sales representative if any of the above items are missing or damaged.

EPM Expansion Card Layout

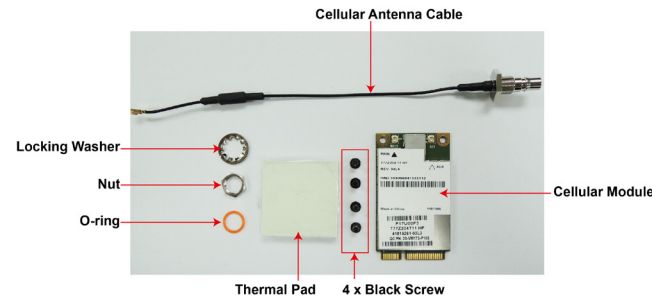


Installing the Wireless Modules

There are two mini PCIe sockets on the module. A cellular module can be installed on either Socket 1 or Socket 2, while a Wi-Fi module can only be installed on Socket 1. For the convenience of installing the antenna, always install the Socket 2 module first.

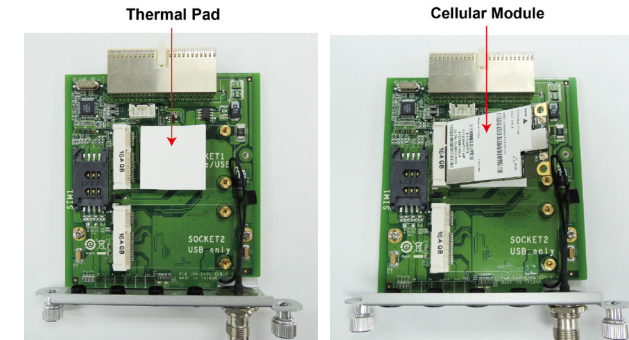
Installing a Cellular Module

Moxa's cellular module accessory package includes a cellular module, a cellular antenna cable, four black screws, a thermal pad, a locking washer, a nut, and an O-ring. In addition, a printed quick installation guide is also included.



Follow the steps on the next page to install the cellular module.

1. Remove the membranes on both sides of the thermal pad, and then place the thermal pad firmly and evenly on the socket. You may then mount the cellular module into the socket by placing it firmly onto the thermal pad



2. Fasten the module with 2 black screws. Connect the antenna cable on the module. Make sure that the cable has been securely fastened. See the following figures for the specific locations of the screws and the antenna cable connector.

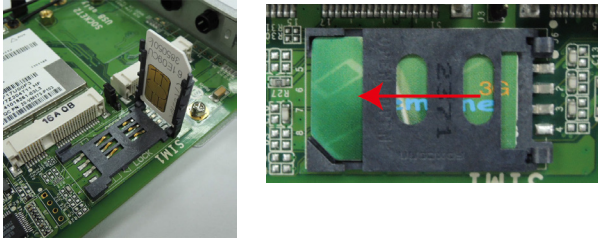


3. Insert the connector of the antenna cable into the O-ring. Remove the black cover from the antenna hole in the front side of the EPM-3338 module, and then insert the connector. Insert the locking washer first, and then fasten the nut to secure the connector.



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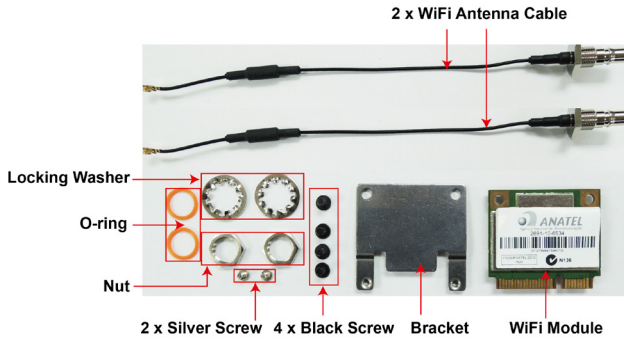
- When finished, connect the cellular antenna to the connector. We suggest you install the antenna on the hole X2 or X3.
- Next, insert the SIM card for the cellular module. Pull up the SIM card slot and insert the SIM card. When finished, replace the holder and slide the slot towards the catch to fasten the holder



- You can use the same procedure to install another cellular module on another socket. The second SIM card holder is located on the back of the EPM-3338 module

Installing a Wi-Fi Module

Moxa's Wi-Fi module accessory package includes a Wi-Fi module, a bracket, two Wi-Fi antenna cables, four black screws, two silver screws, a locking washer, a nut, and an O-ring. A printed quick installation guide is also included.



To install a Wi-Fi module:

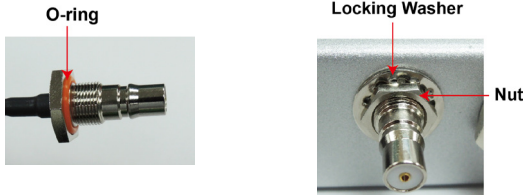
- Use the two silver screws to fasten the stabilization bracket to the Wi-Fi module. Make sure you connect the bracket in the correct direction: the two tongues which are attached to the Wi-Fi module should, after installation, be positioned under the card (refer to the figure below for clarification). Insert the Wi-Fi module into Socket 1, and then fasten with the bracket into place using the two black screws. Please note that Wi-Fi module can only be inserted in Socket 1. See the following figures for details.



- Connect the two antenna cables on the module. Make sure that these cables are securely fastened to the module.

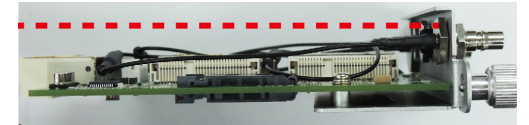
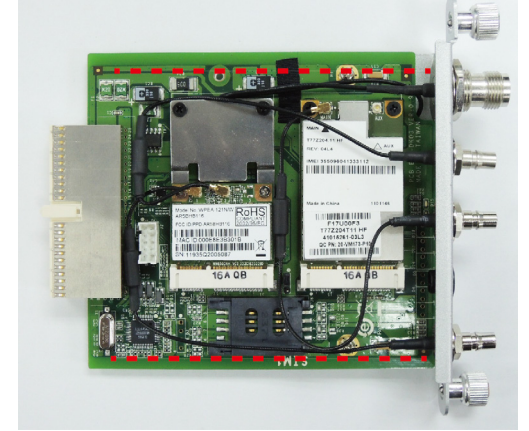


- Insert the connector of the antenna cable into the O-ring. Remove the black cover from the antenna hole in the front side of the EPM-3338 module, and then insert the connector. Place the locking washer on the connector, and then fasten the nut to secure the connector.



- For best performance, the first connector should protrude from the X1 hole, and the second from the X4 hole.

- To ensure the cables will not present a problem when inserting the module, arrange them carefully along the board, as shown in the following photos.



When finished, you may mount the EPM-3338/DK03 module into one of Moxa's V2400 Series embedded computers.

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