

Rajant F50NPRO OEM/Integrators Installation Manual

The Rajant F50NPRO is a high power miniPCI that is purchased by Rajant Corporation from dBii Networks for exclusive use in Rajant branded wireless mesh data networking products. F50NPRO radios marked with FCC ID: VJA-F50NPRO are not resold by Rajant to end users as a part for use in a non-Rajant product. The use of the module is limited to OEM installation only in Rajant branded host hardware.

Installation Instructions

The F50NPRO mini PCI radio is installed at manufacturer or repair of Rajant branded host equipment in accordance with the approved assembly procedures, manufacturing work instructions, and repair procedures. End users of Rajant products are not authorized to install the F50NPRO radio. No instructions are provided to end users for servicing host equipment.

The following precautions are applicable to all host assembly procedures:

- 1. The radio card shall not be installed into a host system that is energized.
- 2. The card can be damaged by electro static discharge (ESD). Personnel performing assembly or repair shall exercise caution to prevent ESD damage to the device.
- 3. The radio shall not be operated without a 50 ohm load on the RF chains. Permanent damage to the radio can result from operating the radio with the RF ports unterminated.
- 4. The F50NPRO design shall not be electrically or mechanically modified for use in Rajant branded host equipment.
- 5. Host equipment that incorporates the F50NPRO shall have a label that specifies the FCC and IC Cert of the F50NPRO, "CONTAINS TRANSMITTER MODULES FCC ID: VJA-F50NPRO IC: 7382A-F50NPRO". The label shall be visible on an outside surface of the host equipment enclosure. The host equipment labels are provided by Rajant to approved contract manufacturers. The host FCC/IC labels are installed per approved assembly procedures. The design of the labels and the installation instructions meet the labeling requirements of KDB 784748 D01.

4.9 GHz Statement

Host equipment using this radio transmitter module is subject to the registration rules of Part90Y. The device is for sale exclusively to licensees and shall not be sold to the general public.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

The antenna used for this transmitter must be kept at a separation distance of at least 20 cm from all persons and must not be co-located with any other transmitter antenna. Certification of body worn host equipment incorporating this radio module will require SAR testing which is not a part of this approval.

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Certified Power and Antenna Requirements

The F50NPRO is certified for operation on channels with a 10 MHz channel bandwidth from 4945 MHz to 4985 MHz. The maximum certified total conducted average power for 10 MHz channels is 22.7 dBm.

The F50NPRO is certified for operation on channels with a 20 MHz channel bandwidth from 4950 MHz to 4980 MHz. The maximum certified total conducted average power for 20 MHz channels is 22.2 dBm.

The channel plan was certified with 6dBi omni directional antennas. Wireless compliance of host equipment using the Rajant F50NPRO radio module is dependent on operation using the same antenna type and gain, at the certified transmitter power levels.

The module is approved for use in mobile and portable applications. Operation in fixed base stations also permitted, provided that operation is at the same certified power level and EIRP as the mobile / portable configuration.