



Persistent Systems RF2150 External Mounting Tray User Manual

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Persistent Systems RF2150 External Mounting Tray



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External Mounting Tray Quick Start Guide



WARNING!

Use of this product is strictly at your own risk.

Do NOT use this product except as directed.

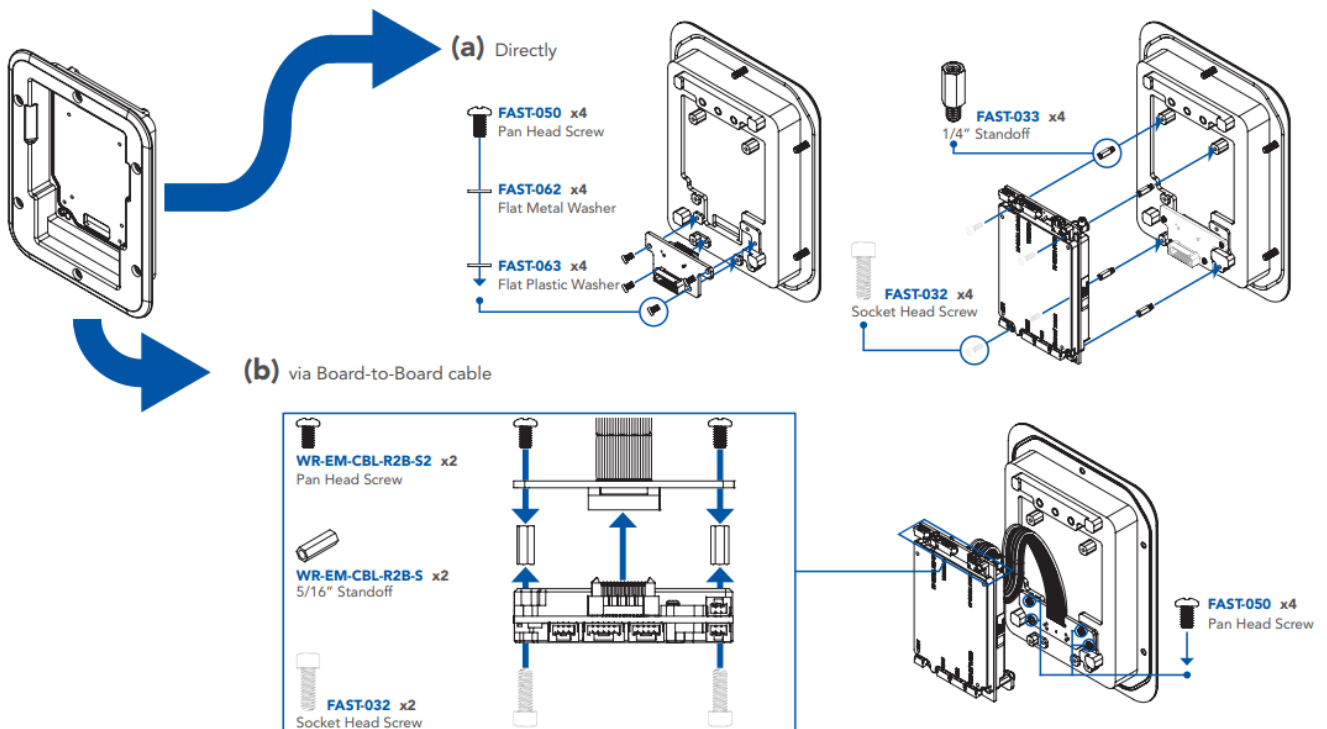
Failure to obey the warnings listed in this document may result in harm to you and/or to your property. The possible harms include, but are not limited to, exposure to flammable materials, smoke inhalation, serious burns, and property damage from fire.



WARNING!

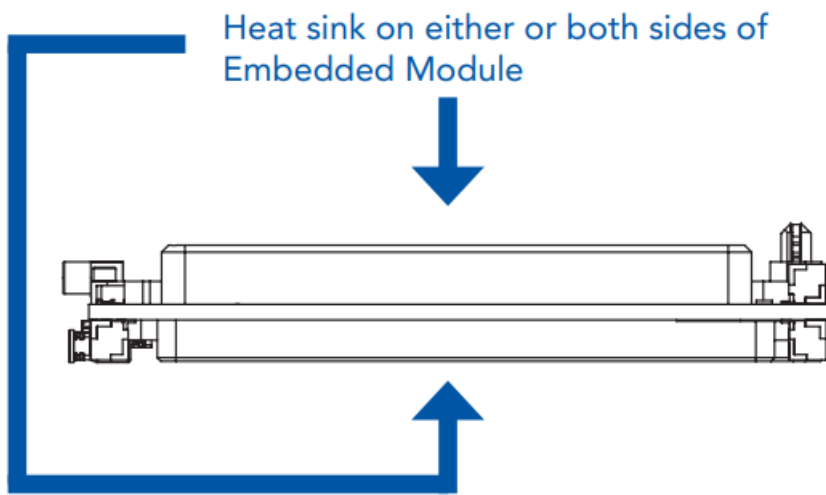
Embedded Modules will not communicate with MPU5s running firmware version 19.0.6 or below. Upgrade all MPU5s and Embedded Modules to firmware version 19.1.0 or above.

1. Connect Embedded Module to External Mounting Tray:

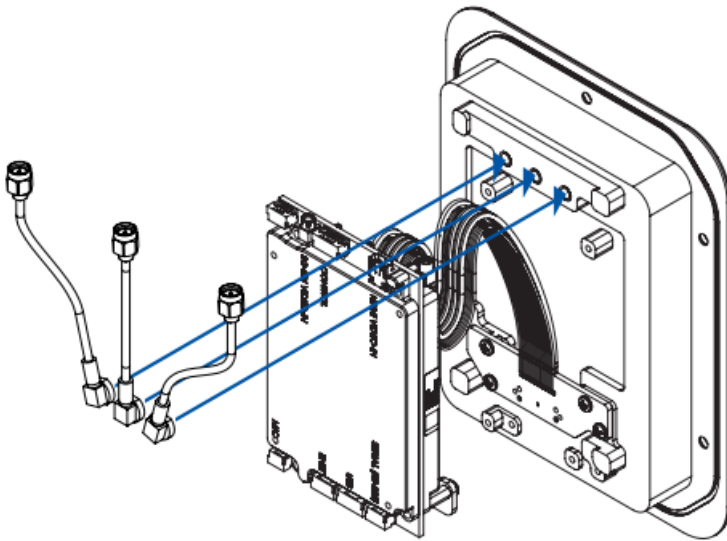


2. Apply Heat Sink(s):

Use a heat sink or mount to a surface capable of heat dissipation as defined in the Embedded Module ICD (Persistent Systems Drawing No. 001-680).



3. Connect RF pigtails:

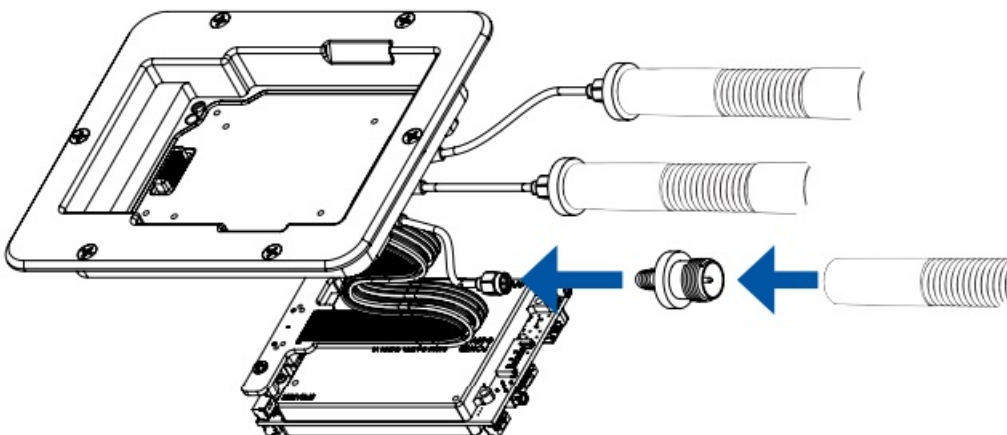


4. Connect antennas or RF cabling:

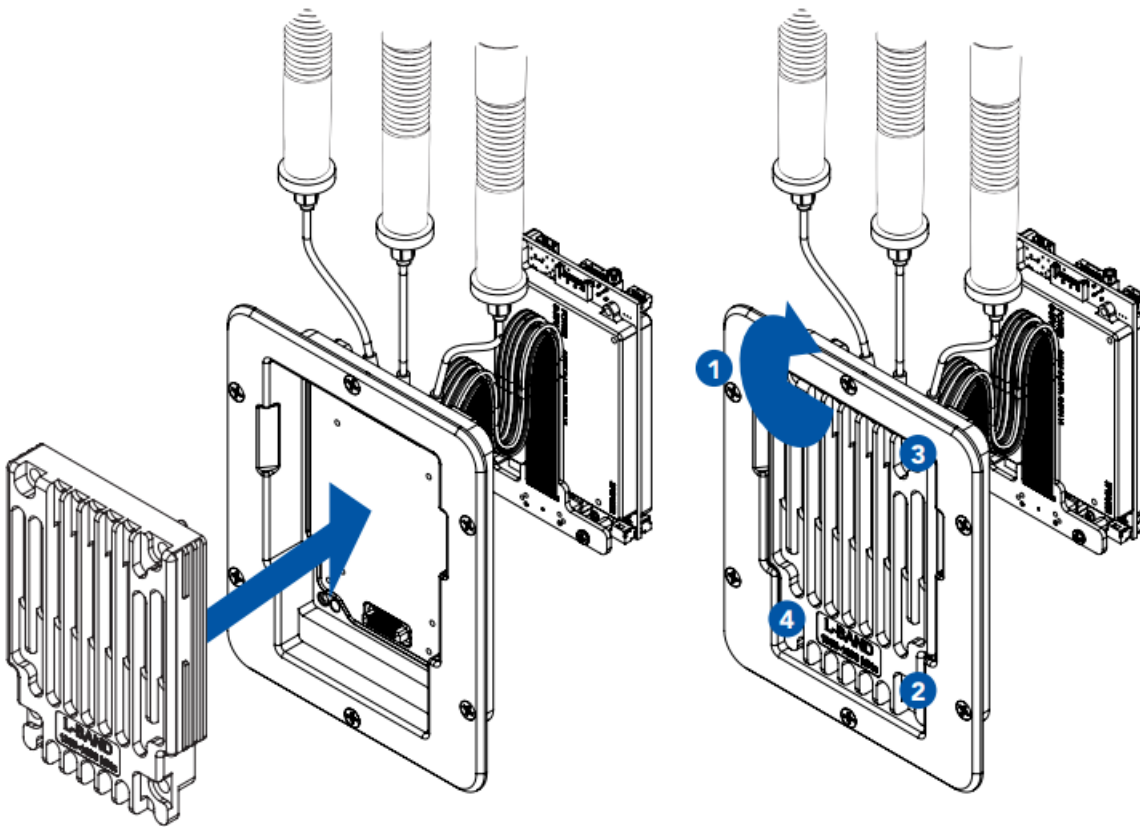


WARNING!

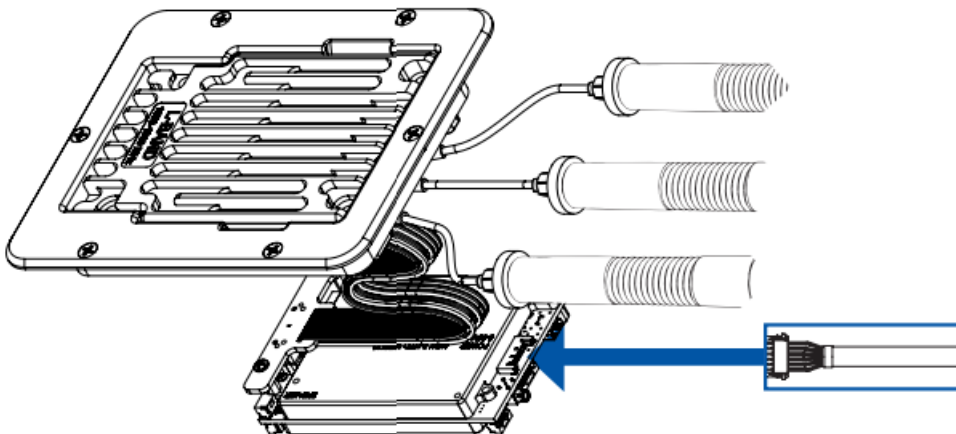
Radios may be damaged if powered on without connected antennas.



5. Insert Radio Module:



6. Connect power:



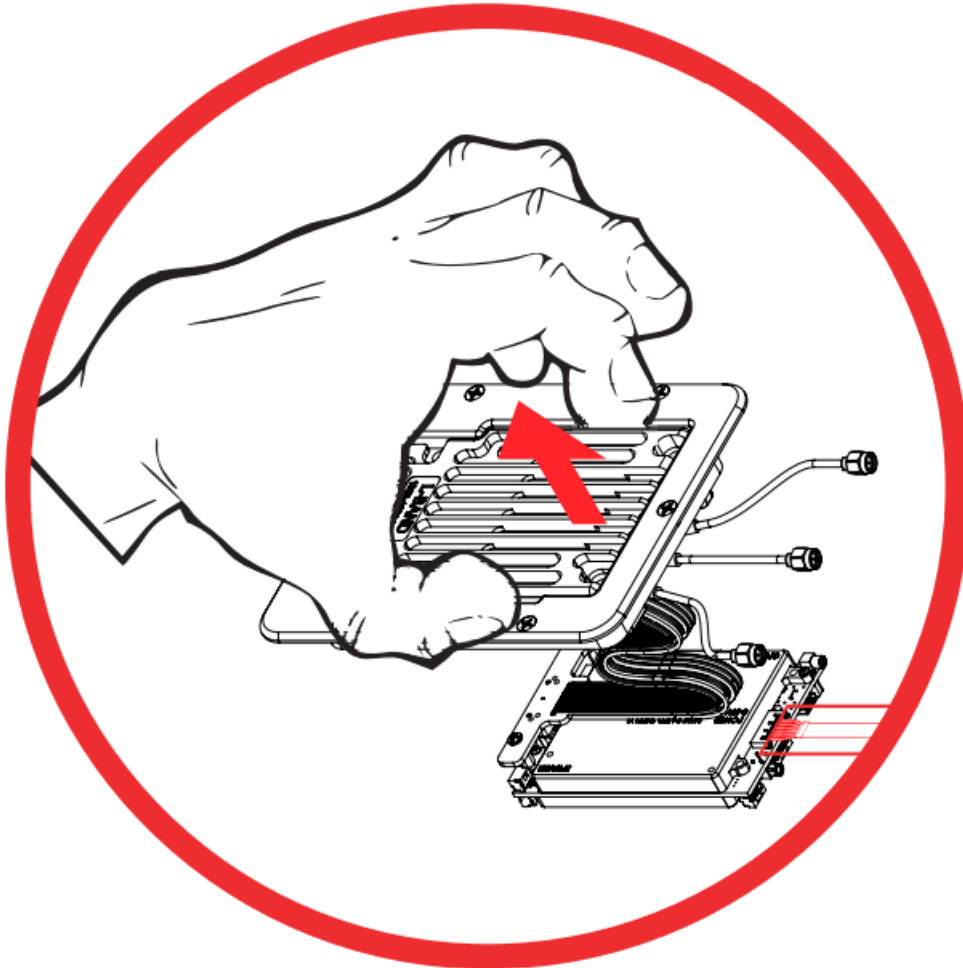
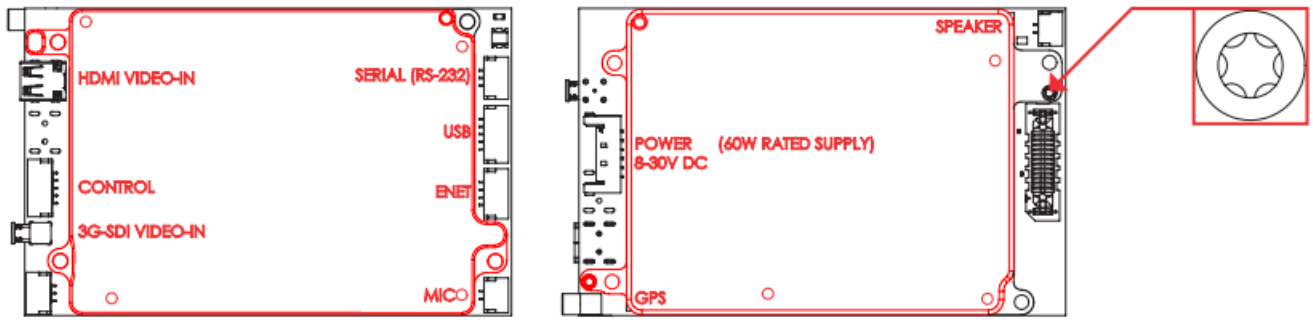
WARNING!

DO NOT remove the radio module from the Embedded Module while power is connected.
DO NOT remove heat sinks under any circumstances.



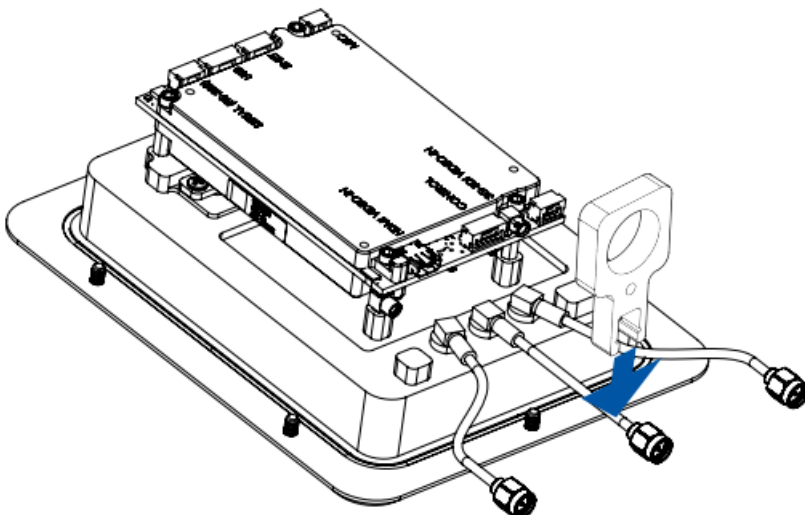
WARNING!

DO NOT remove the preinstalled heat sink and EMI shield that are attached with Torx screws under any circumstances.

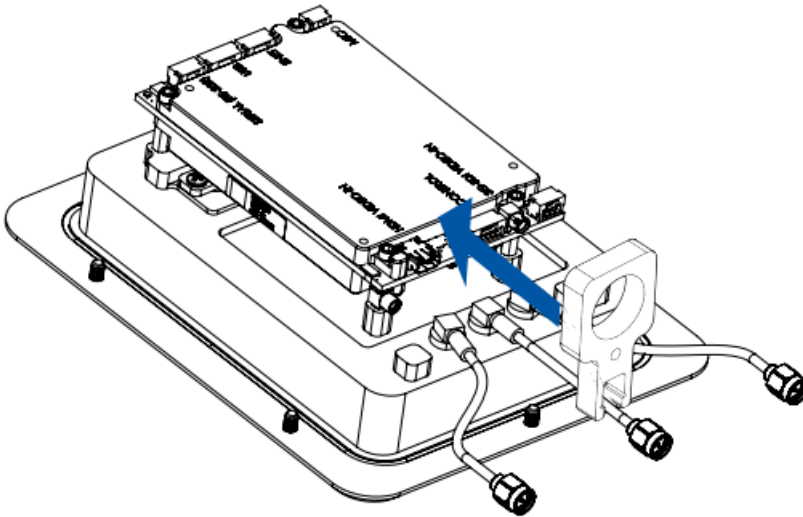


RF Cable Removal

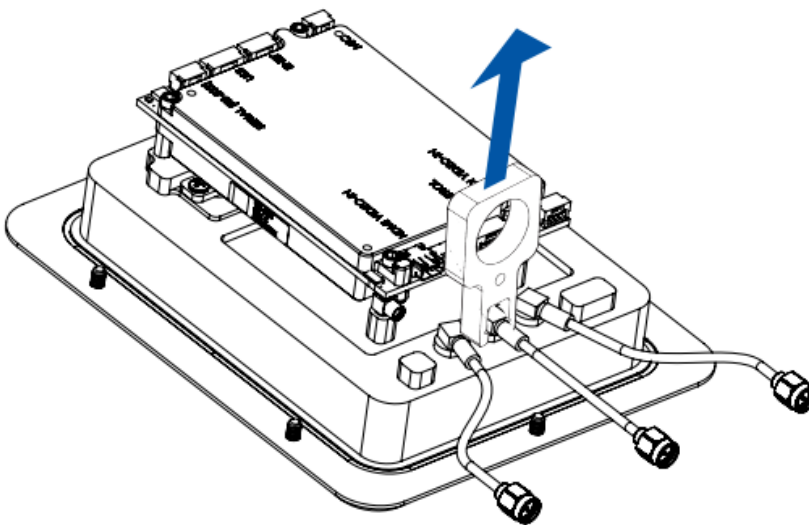
1. Put SMP Removal Tool over Cable:



2. Slide over connector:



3. Pull up:



Embedded Module USB Configuration: Hardware Configuration



WARNING!

Other cable configurations than the host-device configurations shown below are invalid and risk damaging both the computer and connected Embedded Module



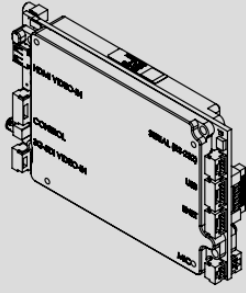
WARNING! – Embedded Module Grounding

All shields, heatsinks, mounting holes, and DC return paths share the same electrical connection (GND). However, when the system is properly installed and wired, the design ensures that the return current takes the designated paths, which are not through metal structural elements such as mounting holes, heatsinks, and fasteners.

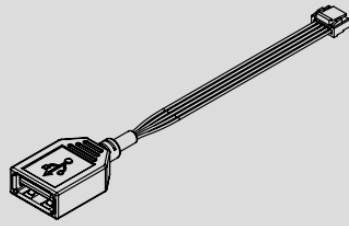
All power lines are to originate and be terminated at the power supply, as opposed to the chassis.

Valid USB Connections

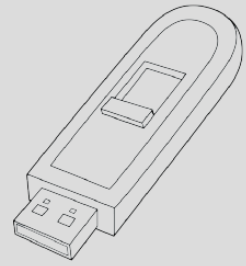
Option A: Embedded Module as USB Host



USB Host



USB Host Cable



USB Device

Option B: Embedded Module as USB Device

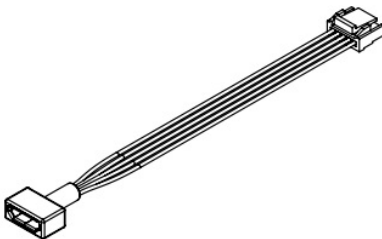
- USB Host



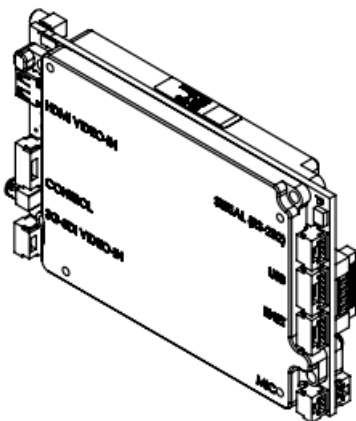
- USB Male to USB Male Cable



- Micro USB B Device Cable



- USB Device



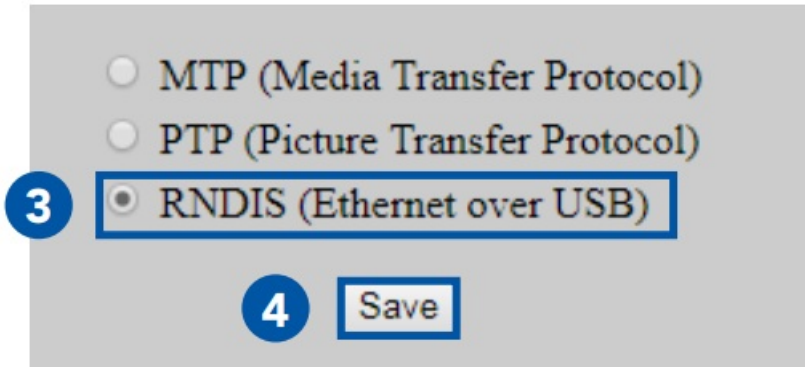
1. Click Node Configuration



2. Click USB Device



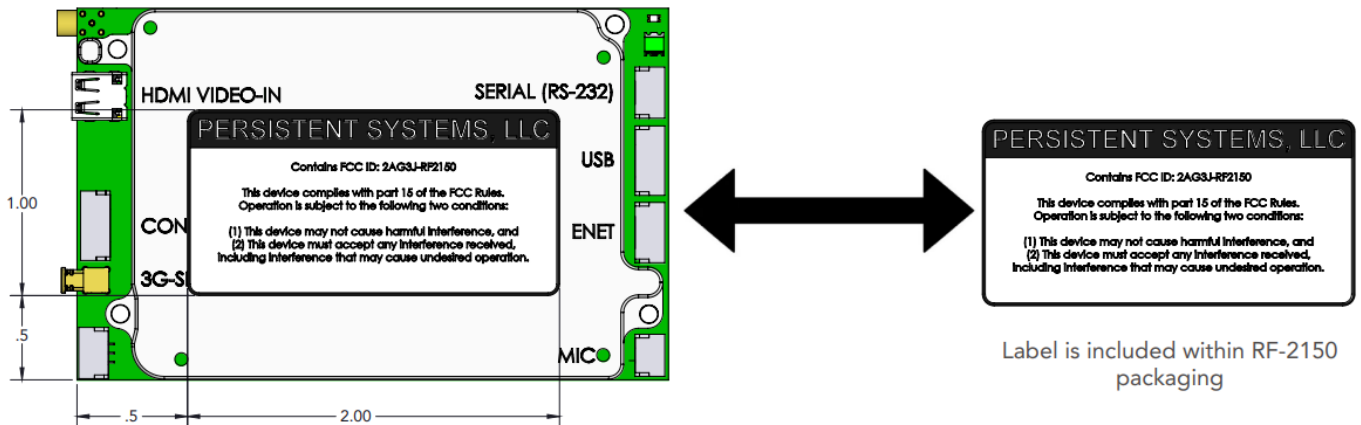
3. Set to RNDIS (Ethernet over USB)



4. Click Save

Professional Installer – Compliance (USA)

When the Embedded Module is paired with RF-2150, professional installer is responsible for attaching included label to the Embedded Module in this location.



Note I: please note that if the FCC identification is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must display a label referred to the enclosed module.

Note II: the manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

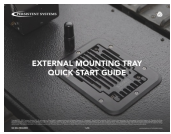
This equipment complies with FCC radiation exposure limits set for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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persistentsystems.com/embedded-module



Documents / Resources



[Persistent Systems RF2150 External Mounting Tray](#) [pdf] User Manual
2AG3J-RF2150, 2AG3JRF2150, rf2150, RF-2150

References

- [🌐 Embedded Module - Persistent Systems : Wave Relay, Mobile Ad-Hoc Networking Solution MANET, Wireless Secure Scalable Communication](#)