

RadioPoint- Enabler

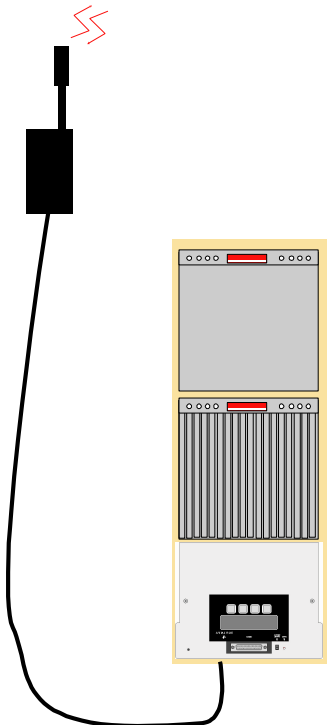
Introduction

The RadioPoint Enabler adds RF communications ability to the Vantage Master Controller. It allows Vantage RF products to be installed within 100 feet of the Master Controller without running station bus or other wiring between them. The Enabler easily connects to the existing RS-232 and Power connections on the master terminal board.

Mounting

For best performance, the Enabler should be mounted at least 6 inches away from the Master Power Enclosure and any other metal enclosures or devices. Normally the Enabler should be mounted to the wall or a stud above the Master Power Enclosure. It may be mounted using Velcro or by hanging it on two screws using the keyhole slots on the back.

IMPORTANT: In order to comply with the FCC RF exposure requirements, this product must be installed and operated in such a way that a minimum separation distance of 20 cm (approximately 8 inches) is maintained from the antenna to any persons. Operations that do not meet these requirements must be avoided.



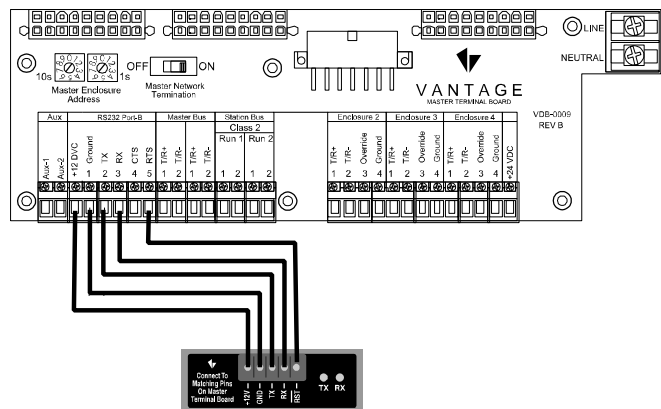
Wiring

6 conductor, 22 gauge wire or larger should be used between the Enabler and the Master Power Enclosure. No more than 20 feet of wire may be used between Enabler and the Master Power Enclosure. Run the wires through one of the knock-out holes in the *bottom* of the Master Power Enclosure to keep the low-voltage wiring away from the high-voltage portion of the Master Power Enclosure. Verify that station bus wiring conforms to Vantage guidelines.

Connections

Connections to the Enabler are all made to the 5-position removable screw terminal. The chart and figure below show how the connections from the Master Power Enclosure to the Enabler are made.

RF Enabler	Connection
+12V	Master Power Enclosure +12V
GND	Master Power Enclosure GND
TX	Master Power Enclosure TX
RX	Master Power Enclosure RX
/RST	Master Power Enclosure RTS



Indicators

LED	Function
TX	Indicates the RF Enabler is transmitting data.
RX	Indicates the RF Enabler is receiving data.

Setup

When the connections have been made as described above, insert the Master Controller (MC) into the Master Power Enclosure (MPE).

Using the RadioPoint Enabler

The Enabler is used to enable the Master Controller to communicate by wireless link with Vantage RF products. Once the Enabler is installed, Q-Link can be used to configure Vantage RF Products as they are installed on the network.

Trouble shooting

- Double check wiring using the chart to the left.
- Is the Master Controller in place in the Master Power Enclosure?
- Make sure the Master Controller is not addressed to 0.

Radio Specifications

FCC ID# PII-RFE1000
Frequency Range 902-928 MHz ISM Band
Power Supply 12 VDC
Current required while transmitting..... 180mA
Current required while receiving..... 70mA
Antenna Connection Permanent (Solder)
Antenna Gain2dBi

Transmit Power 140mW
RF Technology Frequency Hopping Spread Spectrum
Number of Hop Channels.....25
RF Data Rate 19,200 bps
Interface Data Rate 19,200 bps
Operating Temperature Range..... -40-70°C

FCC ID: PII-RFE1000

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this product not expressly approved by Vantage Controls could void the user's authority to operate this product.