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## Guide to Changing the Expansion Port Module in VPN Products

You can change the port module used in the expansion slot of Encore Networks' virtual private network (VPN) products—the original BANDIT, the BANDIT IP, the BANDIT Plus, the VSR-30, and the VSR-1200. (The IBR-10, the ILR-100, and the BANDIT Mini do not use an external expansion port.) The following procedure provides guidelines for changing the expansion port module in a VPN device's chassis.

**Note:** For information on changing a card in the BANDIT III, see the *BANDIT II and BANDIT III Document Set*.

**Note:** For descriptions of chassis models, see the *VPN and Legacy-to-IP Hardware Reference Guide*. For more information on upgrading the BANDIT hardware and software, see the *VPN and Legacy-to-IP Customization and Maintenance Guide*.

### How to Change the Expansion Port Module

 **Warning:** Follow all precautions against electrostatic discharge (ESD) when removing or installing modules in the VPN products. (For example, wear an ESD wrist-strap to protect the unit from ESD.) Allow only qualified service personnel to install and maintain this equipment.

To prevent electrical shock, do not power on the equipment until all cables are connected.

- 1 Unplug the chassis's power supply.
- 2 Disconnect all network connections.
- 3 If this is a BANDIT Plus or VSR-1200 with a connecting cable to a Remote Data Unit (RDU), disconnect that cable from the BANDIT Plus or VSR-1200 chassis.
- 4 If necessary, disconnect the grounding wire from the VPN device's chassis.
- 5 If this is a BANDIT Plus or VSR-1200, loosen the retaining screws holding the chassis to the equipment rack, and remove the chassis from the rack.
- 6 Place the chassis on a flat, stable surface.

- 7 Do the following:
  - a Remove the screws from the bottom of the chassis. (There are four screws on the bottom of a VSR-30, original BANDIT, or BANDIT IP chassis. There are six screws along the periphery of the bottom of a BANDIT Plus or VSR-1200 chassis.)
  - b If this is a BANDIT Plus or VSR-1200, remove the screws along the periphery of the top of the chassis.
- 8 Do one of the following:
  - a Lift the top off the VSR-30, original BANDIT, or BANDIT IP chassis (Figure 1).
  - b Slide the front faceplate and chassis bottom of the BANDIT Plus or the VSR-1200 forward, out of the chassis frame (Figure 2).

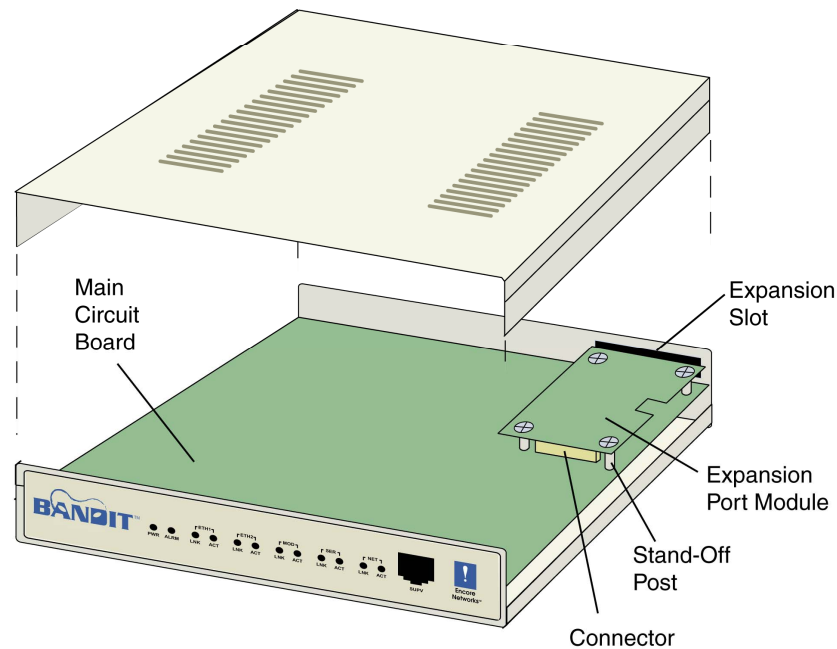


Figure 1. Lifting Top Off VSR-30, Original BANDIT, or BANDIT IP Chassis

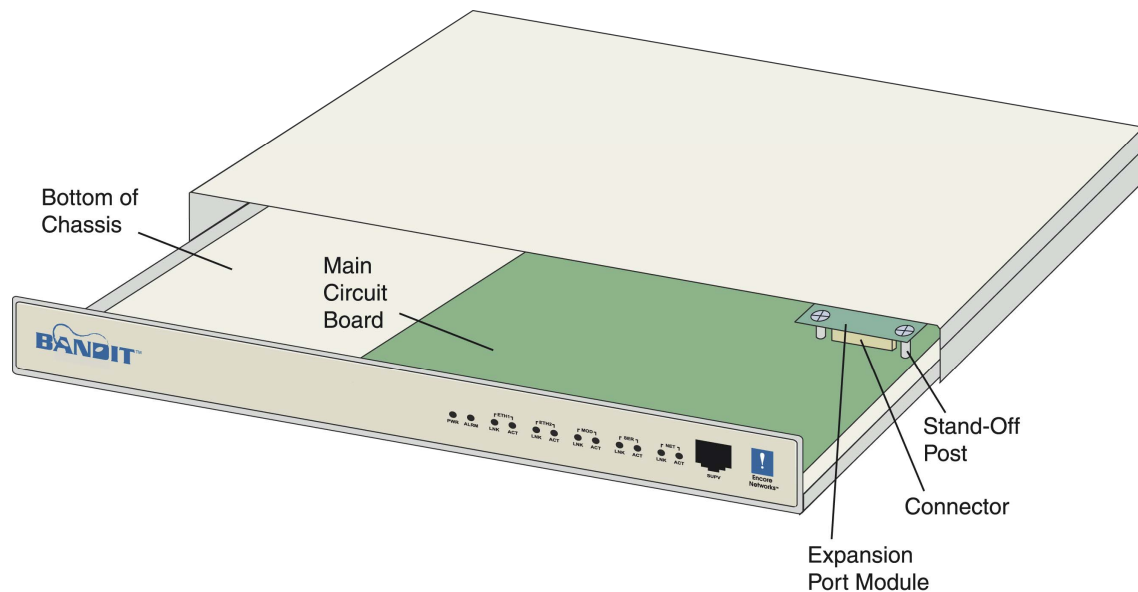


Figure 2. Sliding Front Faceplate and Chassis Bottom of BANDIT Plus or VSR-1200 Forward

- 9 Remove the two screws beside the expansion slot on the rear panel (Figure 3). The expansion slot screws hold a current module panel in place or hold a blank panel to cover the slot.

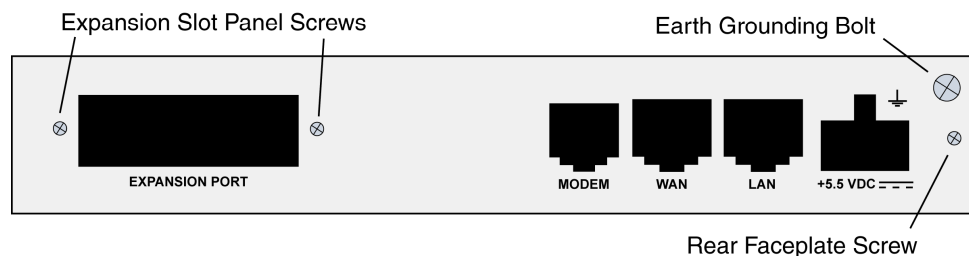


Figure 3. Rear of Original BANDIT Chassis

- 10 Loosen the screws holding the current Expansion Port Module (if any) in place on the main circuit board. Remove the module and place it into a static-resistant bag.
- 11 Install the new Expansion Port Module. The module attaches to a connector on the VPN device's main circuit board. Make sure the connector socket on the module aligns properly with the connector on the circuit board.
 

**Note:** You may need to slide the module's port interface into the expansion slot opening in order to align the connectors properly.
- 12 Once the module is seated into the connector, secure the module into place by tightening the screws in the stand-off posts on the main circuit board.
- 13 Use the expansion slot screws to attach the module's panel cover to the chassis's rear faceplate.

**14** Do one of the following:

- a** Place the top back onto the VSR-30, original BANDIT, or BANDIT IP chassis.
- b** Slide the BANDIT Plus or VSR-1200 chassis back together.

**15** Do the following:

- a** If this is a BANDIT Plus or VSR-1200, tighten the screws on the top of the chassis.
- b** Tighten the screws on the bottom of the VPN device's chassis.

**16** If this is a BANDIT Plus or VSR-1200, mount it back into its rack.

**17** Reconnect the grounding wire to the VPN device's chassis.

**18** If this is a BANDIT Plus or VSR-1200 that uses an RDU, reconnect its cable to the RDU.

**19** Reconnect the VPN device's network connections.

**20** Reconnect the device's power supply.