

Before installing the hardware, configure the network. This allows the installation to be verified while the technician is on-site, eliminating the need for a second visit if there are any problems with the installation. See the XP-DSM Network Configuration Quick Start Guide or the XP-DSM Technical Manual available at www.alpha.com for complete network configuration and hardware installation instructions.

Provision the XP-DSM's RF MAC Address and CPE MAC Address

The RF (modem) and CPE (DSM) MAC Addresses are printed on barcode labels on the front and side of the XP-DSM, as well as on the packing slip.

- Provision the XP-DSM's RF MAC Address as if it were a residential customer modem, so that it will accept a CPE device.
- If operating in Dual IP Mode, provision the CPE MAC Address so that it will be assigned a valid IP address on the public CPE network through the modem.



WARNING!

To reduce the risk of electric shock, remove the inverter module from the power supply prior to XP-DSM installation. For units in service, backup battery power will not be available during this procedure.

Hardware Installation

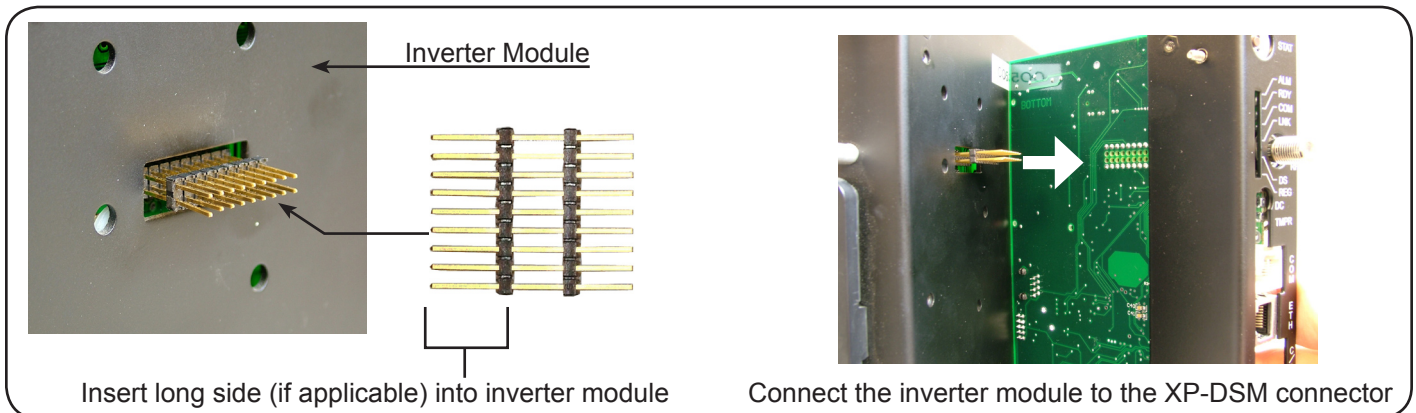
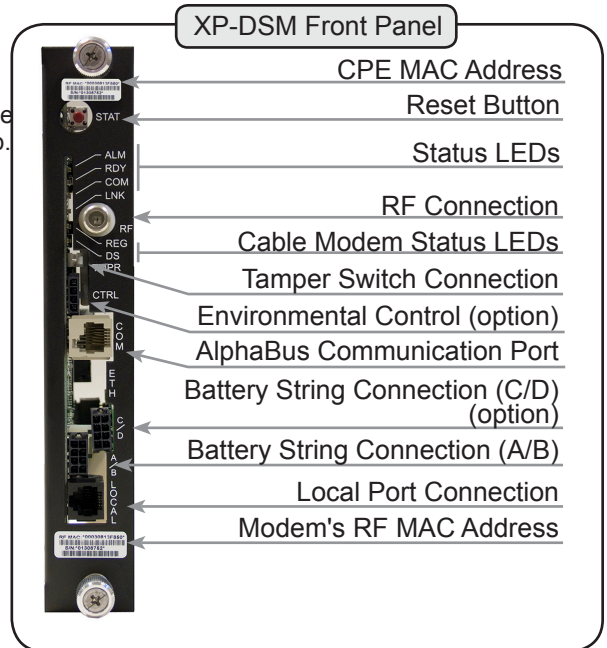
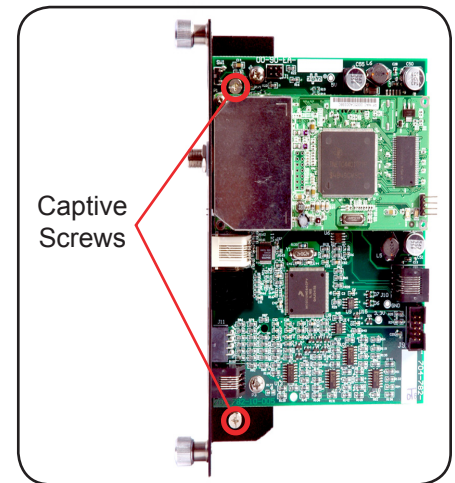
1. Verify the power supply device address is correct.

Power supplies must have 1, 2, or 3 as an address, and no two power supplies monitored by a single XP-DSM can have the same address. The address can be changed in the SETUP menu of the power supply's smart display. See the power supply's technical manual for more information.



2. Install the XP-DSM.

- Turn off the XM2 battery breaker and disconnect all inverter module connections.
- Loosen the inverter module thumb screws and slide the inverter module out of the power supply just far enough to disconnect the ribbon cable. Disconnect the ribbon cable and remove the inverter module. If the inverter module is equipped with a communication module, remove it by loosening the two Phillips captive screws.
- Insert the long side (if applicable) of the 18-pin jumper into the side of the inverter module.
- Line up the 18-pin jumper with the XP-DSM connector and connect the unit to the inverter module.
- Tighten the two captive screws to secure the XP-DSM, re-install the inverter module, and reconnect the ribbon cable.

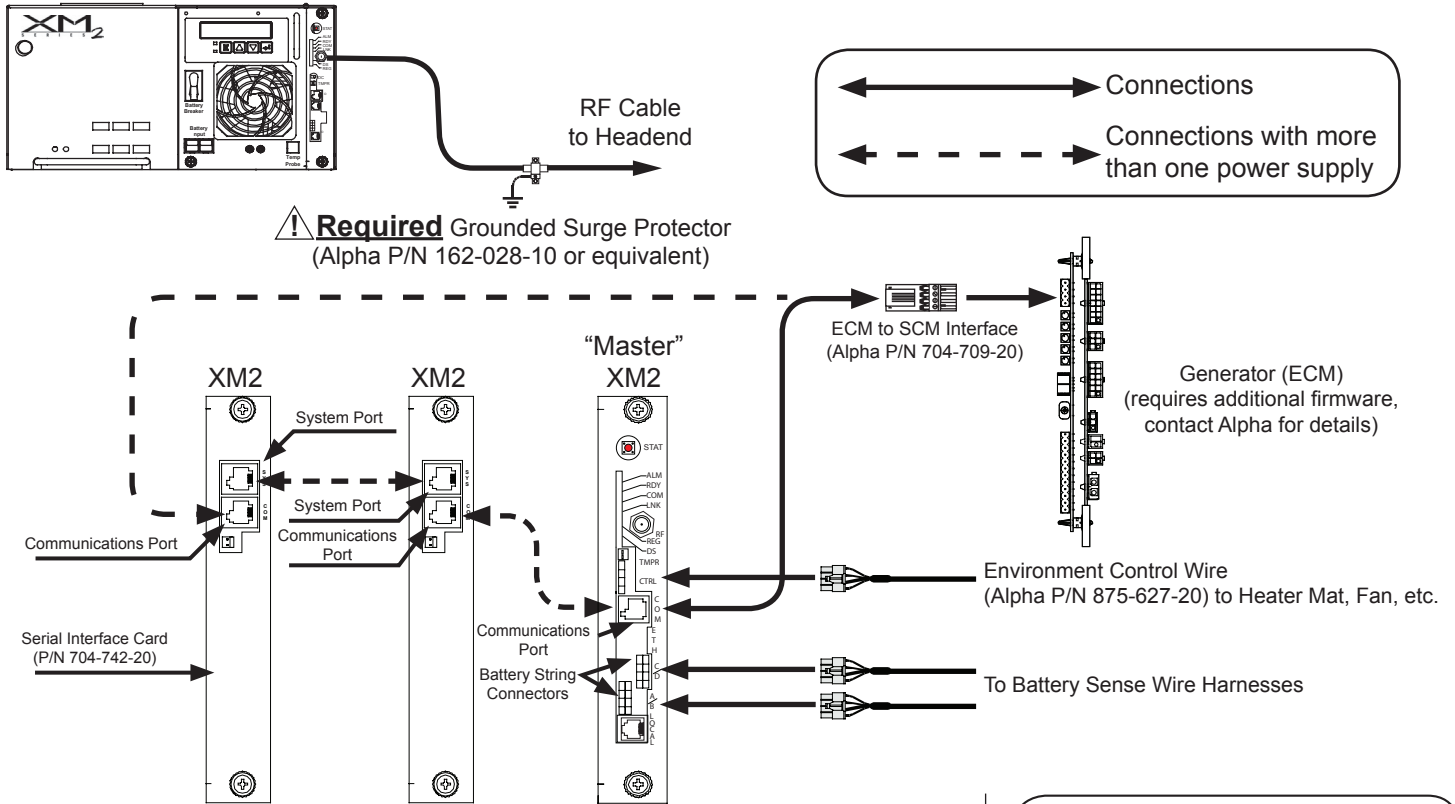


3. Make battery Sense Wire Kit connections.

See the battery diagrams that came with the sense wire kit or reference the XP-DSM Technical Manual.

4. Connect the RF drop and make front panel connections.

The recommended downstream RF level is 0 dBmV, but can be anywhere in the DOCSIS range (+/- 15dBmV).



5. Initial Start-up and Test

- Plug the power supply into the AC outlet and turn on the battery breaker.
- The XP-DSM LEDs blink three times and the RDY light begins blinking on and off.
- Verify no alarms are active.
- Verify the DS and REG LEDs are on solid. This verifies that the XP-DSM has registered an IP address on the public network.
- Verify LNK LED is ON solid.

6. Test the Connection

Check the connection using a personal computer and a Local Port Adapter Cable (Alpha P/N 745-826-21). Terminal Emulation software is necessary (HyperTerminal is recommended). Serial communication settings are:

Baud:	19200	Data Bits:	8	Parity:	None	Stop Bits:	1	Flow Control:	None
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1. Launch the terminal emulation software and hit ENTER to display the menu of CIB tables.
2. Enter >tex and hit ENTER to display the contents of the TEXT table.
3. Check to see that CM IP is populated with the cable modem's IP address and CM/RF ENET with the RF MAC Address. If in Dual IP Mode, check that IP ADDR IN USE is populated with the CPE IP address and ENET ADDR with the CPE MAC Address. See the example to the right.

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>tex
TEXT
-----
0 [ro] DHCP STATE . DISCOVER SENT
1 [ro] DHCP TIMER . 0
2 [ro] DHCP SERV . 0.0.0
3 [ro] DHCP SERV 54 . 0.0.0
4 [ro] DOWN STAT
5 [rw] DOWN NAME 1
6 [rw] DOWN NAME 2
7 [rw] DOWN IP . 0.0.0
8 [rw] DOWN CFG
9 [rw] DOWN CFG IP . 0.0.0
10 [rw] NTP SERV . 0.0.0
11 [ro] NTP DHCP . 0.0.0
12 [ro] NTP TIME UTC . 01/01/70 00:00:00
13 [ro] ENET ADDR . 00.90.EA.A0.1E.5F
14 [ro] IP ADDR IN USE . 65.86.67.68
15 [ro] NETMASK IN USE . 0.0.0
16 [ro] GATEWAY IN USE . 0.0.0
17 [rw] IP ADDR STATIC . 0.0.0
18 [rw] NETMASK STATIC . 0.0.0
19 [rw] GATEWAY STATIC . 0.0.0
20 [rw] SNMP TRAP TARGET: . 0.0.0
21 [rw] SNMP TRAP TARGET: . 0.0.0
22 [rw] SNMP TRAP TARGET: . 0.0.0
23 [rw] SNMP TRAP TARGET: . 0.0.0
24 [rw] SNMP ACCESS LIST . 0.0.0
25 [rw] SNMP ACCESS LIST . 0.0.0
26 [rw] SNMP ACCESS LIST . 0.0.0
27 [rw] SNMP ACCESS LIST . 0.0.0
28 [ro] sysDescr . ATI P01V1.08.0
29 [ro] sysName
30 [ro] sysContact
31 [ro] sysLocation
32 [ro] comLogicalID
33 [ro] CHECK CODE . 146.51.132.199
34 [rw] PING IP . 0.0.0
35 [rw] ATICONFIG IP . 0.0.0
36 [rw] ATICONFIG NAME
37 [ro] TIME UP . 0 00:00:29
38 [ro] CM/RF ENET . 00.03.08.0B.9A.EA
39 [ro] CM IP . 10.20.30.40
40 [ro] CM SUBNET . 255.255.255.0
41 [ro] CM GATEWAY . 192.168.1.1
42 [ro] CM TOD . 192.43.244.18
43 [ro] CM TFTP . 192.168.1.51
44 [rw] SNMP GET . AlphaGet
45 [rw] SNMP SET . AlphaSet
46 [rw] SNMP TRAP . public
47 [rw] ALPHA SNMP SETS . CIBSET
    
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For more information visit www.alpha.com

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