

Ultripower

Installing and Cabling the Ultripower


CAUTION

Before you set up and operate your Ultripower, refer to the "Important Regulatory and Safety Notices to Service Personnel" document that was included with your unit. It is also recommended to refer to the *Ultripower User Guide* which is available from our website.

- **CAUTION:** Do not exceed 1200W total power for all connected devices.
- **NOTICE:** The Ultrix router does not have a power switch. Ensure that the Ultripower is not connected to mains power before connecting the power cables from the Ultripower to the other components. If the Ultripower is energized as you connect the power cables to the Ultrix router, the system could start to power up before it has enough power to operate and could damage the equipment.
- **NOTICE:** Ultripower does not support the use of an UPS with simulated sine wave outputs.
- Refer to the *Ultripower User Guide* for information on connecting an ULTRIX-FR1 or ULTRIX-FR2.
- Read the user documentation for your Ultripower and Ultrix before starting work or operating equipment.

Ultripower General Specifications	
Inputs	100-240VAC
Positive Output	15VDC @ 300W per output connector
Max. Total Output	1200W

For the latest power numbers for your configuration, refer to the Ross Configuration Tool on our website.

1

Rack Mounting

Rack Mount

Secure the Ultripower chassis to the rack frame using the required bolts and washers for your rack frame.

2

Network Cabling

LAN or Network Connection

Plug an Ethernet cable from your network into the **ETHERNET** port. This is the network connection for Ultripower.

Note: *Ultripower must be connected to the same network as the other devices in your routing system.*

3

Installing the PSU Modules

3a

Remove the blank plate from Slot 1 on the Ultripower front panel.

3b

Align the new PSU module into Slot 1.

3c

Slide the new PSU module into Slot 1 to engage it with the interior midplane.

3d

Fully tighten the module retaining bolts to secure the module to the chassis.

3e

Repeat for Slot 2.

4

AC Power Cabling

AC Power Cabling for Ultripower

4a

Connect the female end of the power cable to the remaining power socket.

4b

Connect the other end of the power cable to a suitable AC mains supply.

4c

Repeat steps 4a and 4b for Slot 2.

NOTE: *The two power supply modules should be on separate AC supplies.*

5

Setting the IP Address

5a

Launch DashBoard on your PC desktop.

5b

Select **File** > **Show Walkabout**.

5c

Click **Refresh**.

5d

Locate the Ultripower in **Walkabout**.

5e

Use the **Address** field to specify the IP address. The default is 192.168.20.123. **Note:** *Ultripower does not support Unicode characters.*

5f

Click **Reboot**.

5g

Refer to the *Ultripower User Guide* for additional steps.

6

ULTRIX Cabling

Refer to the Quick Start Guide for your Ultrix router for cabling details.

NOTE: *Ensure that the power cable end with the ferrite bead connects to the Ultripower port.*

Ultripower Rear Panel

4c

2

2

4a

1

2101DR-302-09

Printed in Canada.

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 **CAUTION:** Risk of electrical shock. Enclosure shall be connected to earth ground via protective earth stud and 12AWG conductor or larger.

 **NOTICE:** The ULTRIX-FR12 frame does not have a power switch. Ensure that each Ultripower is not connected to mains power before connecting the power cables from an Ultripower to the other components. If an Ultripower is energized as you connect the power cables to the ULTRIX-FR12, the system could start to power up before it has enough power to operate and could damage the equipment.

 **NOTICE:** Ultripower does not support the use of an UPS with simulated sine wave outputs.

Configuring the Ultripowers

1

The ULTRIX-FR12 requires multiple Ultripower power supply units (minimum of two). It is required that these power cycle together. The Ultracore BCS has a feature to group up to 4 Ultripower units. When the Ultripower group output state is toggled, the output of the units in that group is set to the same state.

 **NOTICE:** The Ultripower units must be configured prior to connecting the power connections to the ULTRIX-FR12 chassis.

To set up Ultripower grouping

Note: Do not connect the Ultripower units to the ULTRIX-FR12 until the Ultripower units are configured and grouped.

1. Connect each Ultripower unit to mains AC and your facility network.
 2. Configure Ultripower network IP addresses via DashBoard > Walkabout. Refer to the *Ultripower User Guide* for details.
 3. Change the names of the Ultripower units (particularly the primary) for easy identification in the DashBoard Device Tree.
 4. Add the Ultripower units to the DashBoard Device Tree. Refer to the *Ultripower User Guide* for details.
 5. For each Ultripower, navigate to the **Setup** tab and ensure the output ports are grouped together.
 6. In DashBoard, Locate the Ultracore BCS node in the Tree View of DashBoard.
 7. Expand the main Ultracore BCS node.
 8. Expand the Ultracore BCS sub-node to display a list of sub-nodes in the Tree View.
 9. Expand the Devices sub-node.
 10. Double-click the Ultripower Manager sub-node.
 11. Click Add under the Group pane. The Group pane displays a new entry "New Group".
 12. To assign a unique identifier for the group, click "New Group" and edit as required.
 13. Select the group from the list in the Group pane.
 14. Click Add under the Ultripower pane to open the Select Ultripower dialog.
 15. From the drop-down menu, expand the node for the Ultripower unit to include in this group.
 16. Double-click the sub-node.
 17. Verify that the information is correct.
 18. Click OK. The Select Ultripower dialog closes and the Ultripower pane updates to list the selected unit.
 19. Repeat steps 11 to 18 to add the second Ultripower unit to the group.
- Note:** If you are setting up a redundant system or a high-powered system, you will need to include 4 Ultripower units to the group.
20. Click **OFF**.

Powering on the ULTRIX-FR12

2

 **NOTICE:** The Output state of the grouped Ultripowers must be toggled to **OFF** before connecting to the ULTRIX-FR12.

To verify that each Ultripower Output state is toggled to OFF

- 2a Locate the Ultracore BCS node in the Tree View of DashBoard.
- 2b Expand the main Ultracore BCS node.
- 2c Expand the Ultracore BCS sub-node to display a list of sub-nodes in the Tree View.
- 2d Expand the Devices sub-node.
- 2e Double-click the Ultripower Manager sub-node.
- 2f From the Group list, select the required Ultripower group.
- 2g Click **OFF**.
- 2h Verify that each Ultripower is the same state (Off). Refer to the *Ultripower User Guide* for details.

To cable two Ultripowers to the ULTRIX-FR12

- 2i Connect all four power cables from the ULTRIX-FR12 to the matching power connectors on the first Ultripower chassis.
- 2j Connect all four power cables from the ULTRIX-FR12 to the matching power connectors on the second Ultripower chassis.

To cable additional Ultripowers (optional)

Note: This procedure is only required when installing a high power redundancy setup.

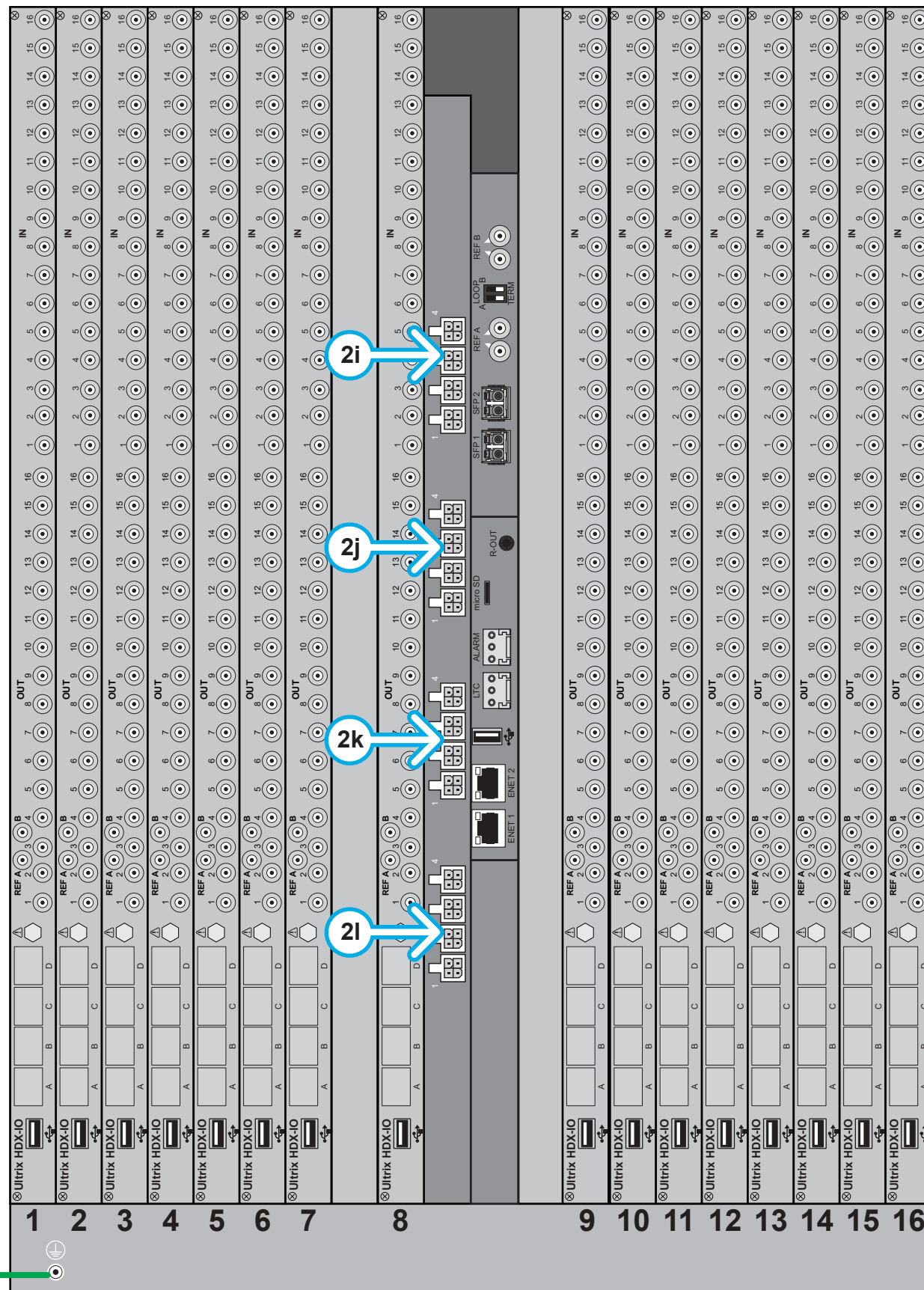
- 2k Connect all four power cables from the ULTRIX-FR12 to the matching power connectors on the third Ultripower chassis.
- 2l Connect all four power cables from the ULTRIX-FR12 to the matching power connectors on the fourth Ultripower chassis.

 **CAUTION:** Before setting an Ultripower Group to ON, ensure its Ultripower PSU average power output is below 5W.

To toggle the Ultripower Group to ON

- 2m Locate the Ultracore BCS node in the Tree View of DashBoard.
- 2n Expand the main Ultracore BCS node.
- 2o Expand the Ultracore BCS sub-node to display a list of sub-nodes in the Tree View.
- 2p Expand the Devices sub-node.
- 2q Double-click the Ultripower Manager sub-node.
- 2r Click **ON**.

Protective
Earth
Ground



Read the user documentation for your Ultripowers and ULTRIX-FR12 before starting work or operating equipment.



Have a question? Call our free, 24-hour technical support hotline to speak with a live product specialist located right here in our facility.

Tel: (+1) 844 • 652 • 0645
Email: techsupport@rossvideo.com