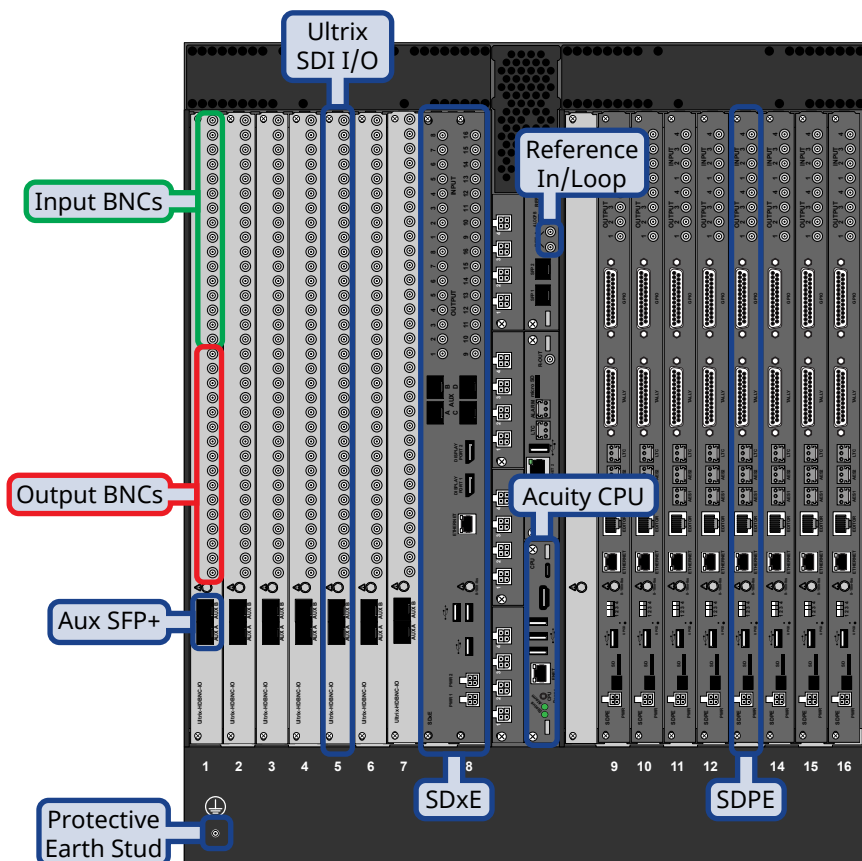


## Ultrix FR12 Frame

**NOTICE** Adequate ventilation within a rack frame must be maintained. Ensure side to side ventilation is not compromised. Refer to the Ultrix Installation Guide for more information.

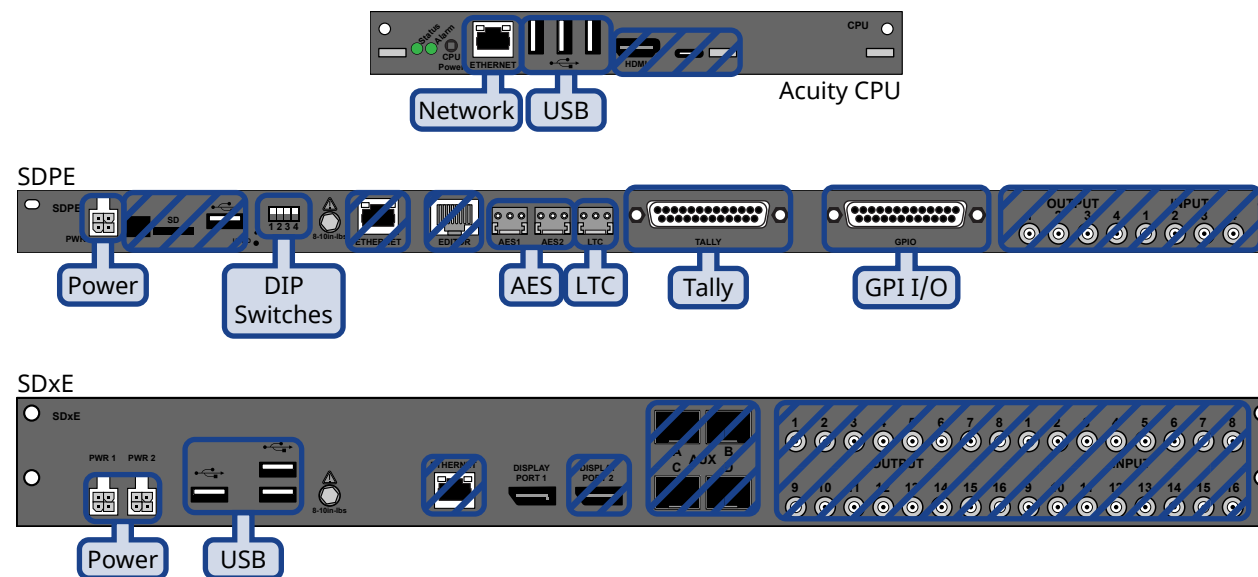


### Notes:

- The Ultrix FR12 frame supports the Acuity switcher platform with up to 8 MEs.
- The Ultrix FR12 frame requires an Ultrix BCS to configure and operate the system.
- The Ultrix FR12 frame supports a single SDxE blade.
- The SDxE blades can only be installed in slots 8 or 9.
- The switcher uses the Reference input to Ultrix for timing.
- All power supplies must be connected to operate the switcher.
- The Input and Output HD-BNCs on the SDPE and SDxE blades are not used at this time.
- Physical sources and destinations on the router must be mapped internally to inputs and outputs on the switcher.
- The Ultrix SDI I/O blade is used to provide the sources and destinations that the switcher can access.
- The REF B connection is not supported at this time.
- A 1GbE ethernet connection is required for Ultrix.
- The Ethernet port on the SDxE blade should not be connected.

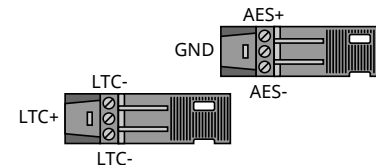
## Acuity Switcher

Not Used at this time.



**CAUTION!** Electrical shock hazard. The Power connector (PWR) must always be disconnected when the SDPE or SDxE blades are not installed in the frame.

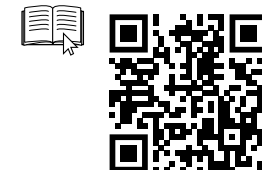
**NOTICE** Do not connect the Ethernet port on the SDxE blade to a network. Connecting the ethernet port can cause network problems with other blades in the frame.



### Notes:

- The switcher is made up of a single Acuity CPU board, a number of SDPE blades, and an optional SDxE blade.
- Each SDPE blade provides a single HD/UHD ME.
- The SDxE blade provides the 3D DVE Warp resources.
- The number of SDPE blades a system can have depends on the size of the Ultrix frame and the other blades that are installed.
- Only the Ethernet port on the Acuity CPU card can be used to connect to the Acuity software.
- On the SDPE, the Ethernet, USB, SD, and Input/Output HD-BNCs are not used at this time.
- On the SDxE, the Ethernet, Display Port 2, AUX SFPs, and Input/Output HD-BNCs are not used at this time.
- The GPI and Tally ports on each SDPE blade are independent of each other. As you add more SDPE blades, each ME has an independent set of GPIs and Tallies.
- Display Port 1 is used for diagnostic purposes only.

Tally (female DB25)				GPI I/O (female DB25)			
Pin	Tally	Pin	Tally	Pin	GPI	Pin	GPI
1	1	14	14	1	I/O 1	14	I/O 14
2	2	15	15	2	I/O 2	15	I/O 15
3	3	16	16	3	I/O 3	16	I/O 16
4	4	17	17	4	I/O 4	17	I/O 17
5	5	18	18	5	I/O 5	18	I/O 18
6	6	19	19	6	I/O 6	19	I/O 19
7	7	20	20	7	I/O 7	20	I/O 20
8	8	21	21	8	I/O 8	21	I/O 21
9	9	22	22	9	I/O 9	22	I/O 22
10	10	23	23	10	I/O 10	23	I/O 23
11	11	24	24	11	I/O 11	24	I/O 24
12	12	25	Common	12	I/O 12	25	Ground
13	13			13	I/O 13		



## Power and Cabling

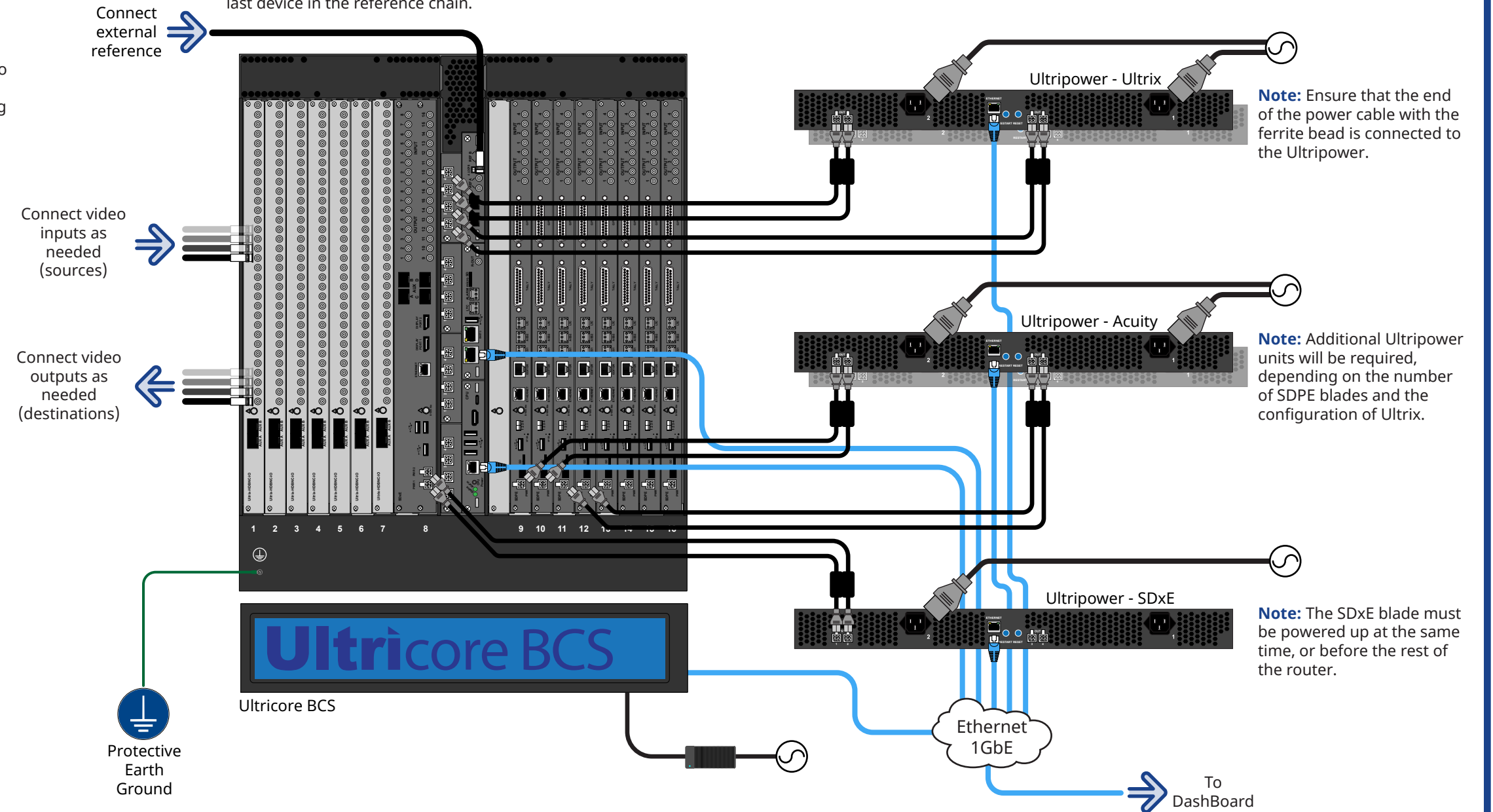
Read the instruction manual for your Ultripower and Ultrix FR12 before starting work or operating equipment.

**CAUTION!** Risk of electrical shock. Enclosure shall be connected to earth ground via protective earth stud and 18AWG conductor or larger.

**NOTICE** The Ultrix FR12 frame, SDPE blades, and SDxE blades require multiple Ultripower units to be tied together in a group to provide power to the router and switcher at the *same time*. The Ultripower group and Manager must be set up before connecting power to the system. Refer to the documentation for your Ultripower for information on setting up groups and using the Manager.

Mains Power

**Note:** Terminate the REF LOOP connector and set the DIP to TERM if the router is the last device in the reference chain.



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

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