



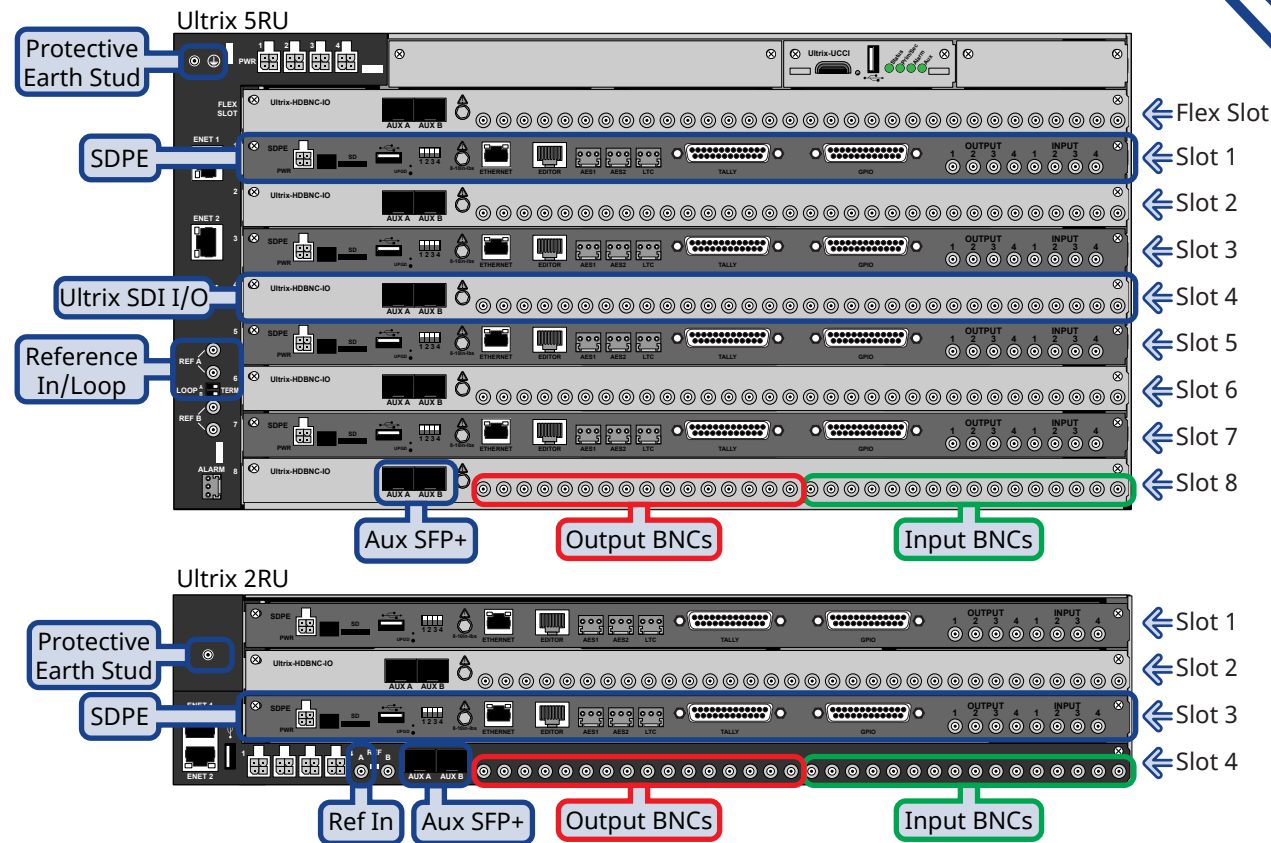
CAUTION! Before you set up and operate your device, see the "Important Safety Instructions" in your switcher and router manuals.

Ultrix 5RU Frame

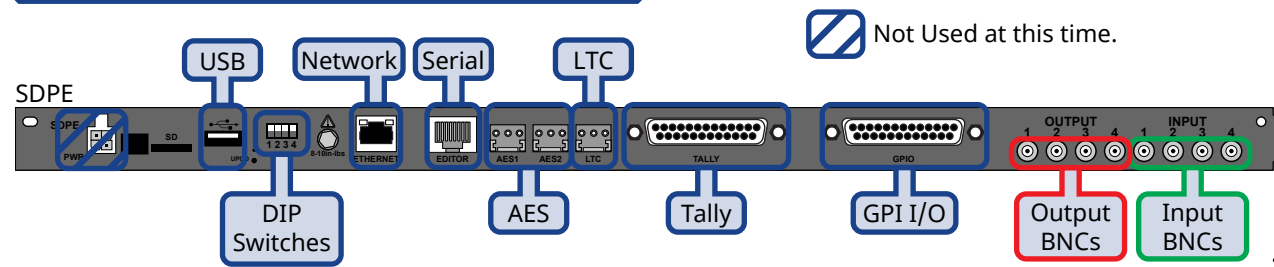
NOTICE Adequate ventilation within a rack frame must be maintained. Ensure side to side ventilation is not compromised. Refer to the Ultrix Installation Guide for more information.

Notes:

- The Ultrix 5RU and 2RU frames support multiple Carbonite switcher platforms at once.
- The switcher uses the Reference input to Ultrix for timing.
- The input and output BNCs on the SDPE blade are mapped to physical inputs and outputs 19-22 on the switcher.
- 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 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.
- An Ultracool may be required, depending on your installation.
- The Ultra 5RU frame can support up to 4 SDPE blades and the 2RU can support up to 2 SDPE blades.
- The Protective Earth Stud may not be present on all frames.
- The power connections on the SDPE blades are not needed at this time.



SDPE (Software Defined Production Engine)



CAUTION! Electrical shock hazard. The Power connector (PWR) must always be disconnected when the SDPE blade is not installed in the frame.

Notes:

- The switcher is made up of a single SDPE blade. Each SDPE blade provides an independent Carbonite switcher.
- The number of SDPE blades a system can have depends on the size of the Ultrix frame and the other blades that are installed.
- Each SDPE blade is independent of the others. If you upgrade one to a different version of software, that upgrade is not pushed to the other SDPE blades.
- There should be a 1-slot gap between SDPE blades in either the 5RU or 2RU router to ensure proper cooling. An I/O blade can be installed in that gap, but two SDPE blades should not be installed next to each other.
- The GPI and Tally ports on each SDPE blade are independent of each other.

Tally (female DB25)		GPI I/O (female DB25)	
Pin	Tally	Pin	Tally
1	1	1	I/O 1
2	2	2	I/O 2
3	3	3	I/O 3
4	4	4	I/O 4
5	5	5	I/O 5
6	6	6	I/O 6
7	7	7	I/O 7
8	8	8	I/O 8
9	9	9	I/O 9
10	10	10	I/O 10
11	11	11	I/O 11
12	12	12	I/O 12
13	13	13	I/O 13

AES+ / AES-		LTC+ / LTC-	
Pin	Tally	Pin	Tally
14	14	14	I/O 14
15	15	15	I/O 15
16	16	16	I/O 16
17	17	17	I/O 17
18	18	18	I/O 18
19	19	19	I/O 19
20	20	20	I/O 20
21	21	21	I/O 21
22	22	22	I/O 22
23	23	23	I/O 23
24	24	24	I/O 24
25	Common	25	Ground

Power and Cabling



Read the instruction manual for your Ultripower and Ultrix FR5 or Ultrix FR2 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 frame and SDPE blades do not have power switches. Ensure that the Ultripower is not connected to mains power before connecting the power cables from the Ultripower to the other components. This prevents part of the system from powering up before you are ready.

