Caution: Before you set up and operate your server, see the "Important Safety Instructions" in your User manual.

Ports and Connectors

Power

8-Channel

LTC In
AES In/Out 9-16 & 1-8
Analog Audio Out

Serial

SDI Out
SDI In

Replay Panel
TC In
Reference In
Quad Viewer Out

AES Port

	IN 2		IN 4		OUT 2		OUT 4	
	Cold		Cold		Cold		Cold	
Gnd	Hot	Gnd	Hot	Gnd	Hot	Gnd	Hot	
13 12 11 10 9 8 7 6 5 4 3 2 1								
25 24 23 22 21 20 19 18 17 16 15 14								
Gnd	Hot	Gnd	Hot	Gnd	Hot	Gnd	Hot	
	Cold		Cold		Cold		Cold	
	IN 1		IN 3		OUT 1		OUT 3	

RS422 (RJ45/DB9)

Pin	Signal
1	Gnd
2	Tx-
3	Rx+
4	Rx Gnd
5	n/c
6	Tx Gnd
7	Tx+
8	Rx-
9	n/c

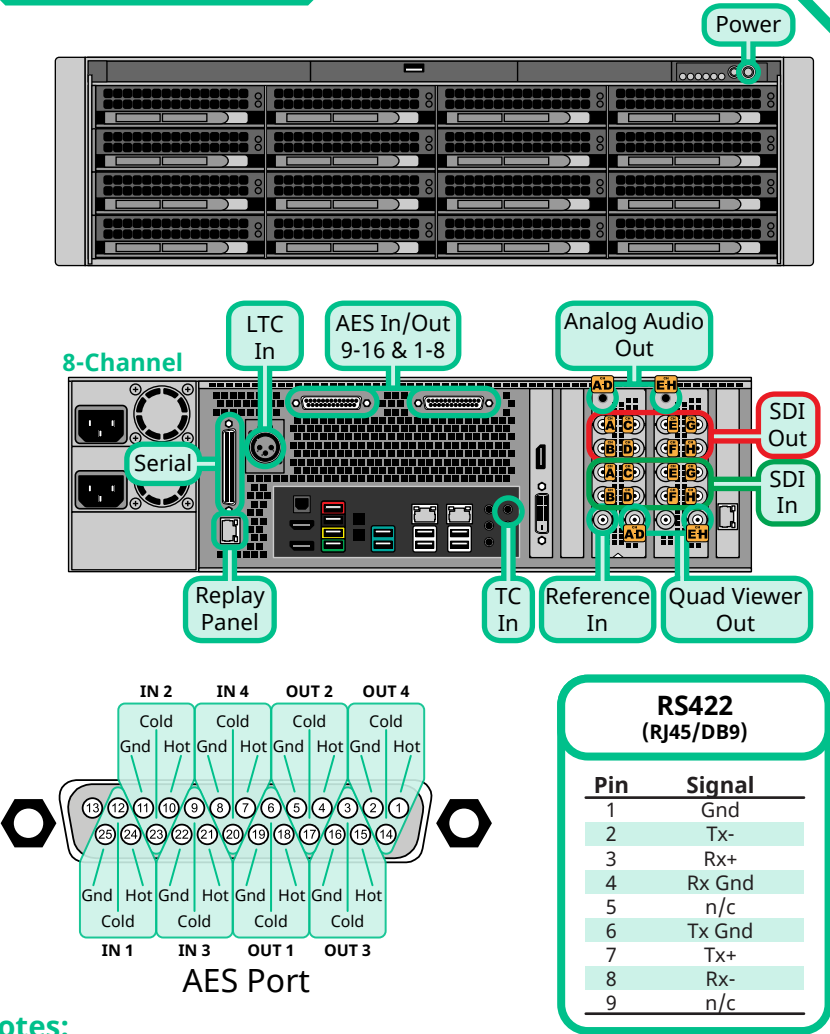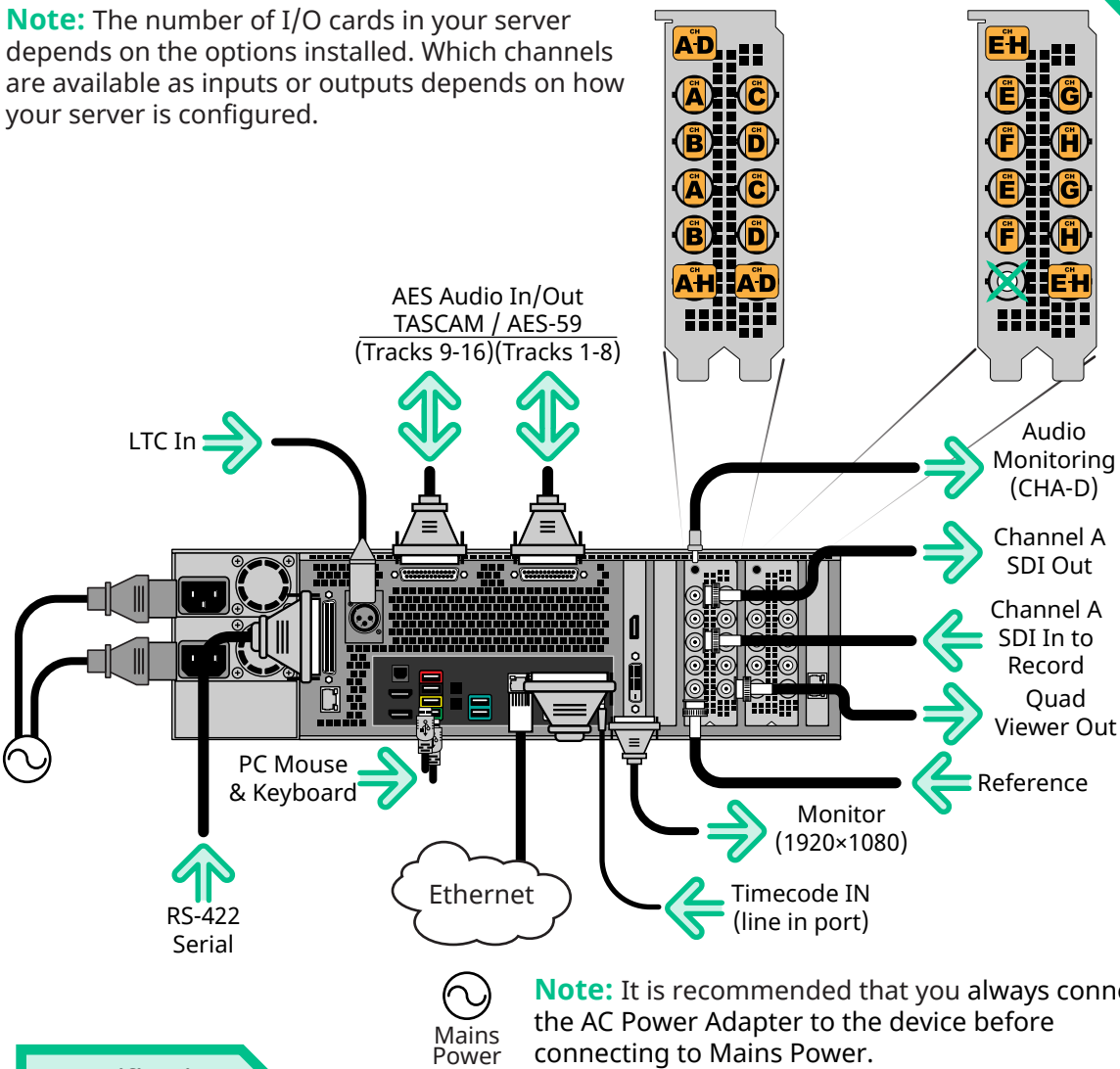### Notes:

- Only the Reference BNC on the left (CHA-D) card is operational when two cards are installed.
- The AES Digital Audio ports are only available on the Mira Replay.
- The number of SDI inputs and outputs depends on the model of server you have.
- If you are recording from, or playing into, an external device you must have all devices connected to the same reference signal to ensure proper timing.
- A breakout cable connects to the Serial port and provides 8 RJ45 serial connectors.
- The RJ45 connectors and DB9 adapters have the same pinout for serial control.
- Both RS-422 serial and ethernet control are supported for remote control.
- The TC In (LINE IN) audio port is used for TC Chase.

Power and Control Cabling

Note: The number of I/O cards in your server depends on the options installed. Which channels are available as inputs or outputs depends on how your server is configured.

AES Audio In/Out TASCAM / AES-59 (Tracks 9-16)(Tracks 1-8)

LTC In

PC Mouse & Keyboard

RS-422 Serial

Ethernet

Mains Power

Audio Monitoring (CHA-D)
Channel A SDI Out
Channel A SDI In to Record
Quad Viewer Out
Reference
Monitor (1920×1080)
Timecode IN (line in port)

Note: It is recommended that you always connect the AC Power Adapter to the device before connecting to Mains Power.
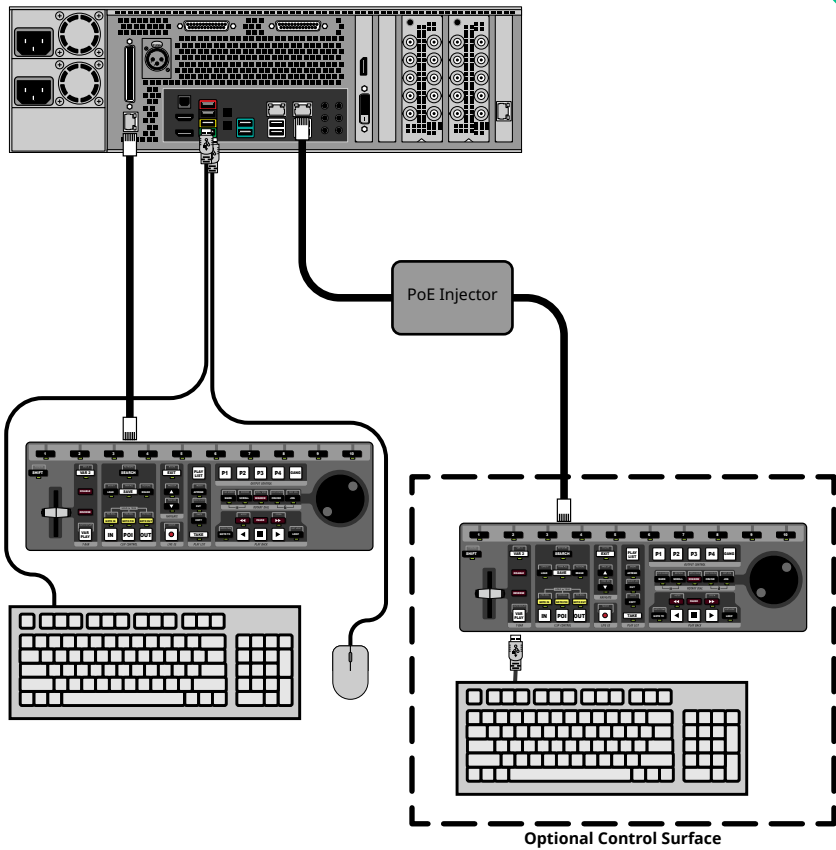
Specifications

SDI Video Formats

525i (480i) 59.94Hz
625i (576i) 50Hz
720p 60Hz
720p 59.94Hz
720p 50Hz
1080i 59.94Hz
1080i 50Hz
1080pSF 24Hz (J2K)
1080pSF 23.98Hz (J2K)
1080p 59.94Hz
1080p 50Hz (AVC-Intra)

Default Passwords

Windows	Abekas
Administrator	multiflex

Input Voltages

100 to 240V~
3 to 1.5A
60 to 50Hz

Operating Environment

Temperature:	20 - 35°C (68 - 95°F)
Humidity:	20 - 80%

Video/Audio Input Specifications

Video Inputs, HD-SDI	SMPTE 292M 10-bit at 1.5Gb/s
Video Inputs, SD-SDI	SMPTE 259M 10-bit at 270Mb/s
Embedded Audio, HD-SDI	8 Tracks, 48kHz at 24-bit
Embedded Audio, SD-SDI	4 Tracks, 48kHz at 20-bit
AES Discrete Audio	8 or 16 Tracks AES59-2012/TASCAM Digital
Reference Input	Tri-Level HD or Composite Analog SD; Terminating
Native Codec	JPEG-2000 Compression @ 25Mb/s to 200Mb/s

Video/Audio Output Specifications

Video Outputs, HD-SDI	SMPTE 292M 10-bit at 1.5Gb/s
Video Outputs, SD-SDI	SMPTE 259M 10-bit at 270Mb/s
Embedded Audio, HD-SDI	8 Tracks, 48kHz at 24-bit
Embedded Audio, SD-SDI	4 Tracks, 48kHz at 20-bit
AES Audio	8 or 16 Tracks AES59-2012/TASCAM Digital
Analog Audio Monitoring	3.5mm headphone connector, unbalanced, line-level at -10dBv, 2 Tracks (1 stereo pair), user selectable to monitor any out
Native Codec	JPEG-2000 Compression @ 25Mb/s to 200Mb/s

Note: Some video formats require specific hardware to be installed in your server.

Control Surface Connection

PoE Injector

Optional Control Surface

Note: A keyboard can be connected to the optional Control Surface, but only a single mouse can be connected to the system.

ROSS