

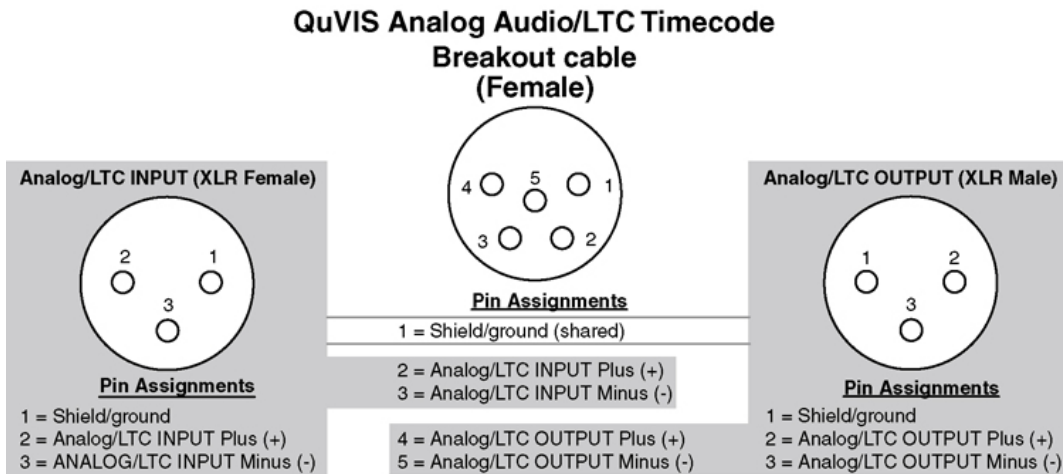
QuVIS CONNECTOR PINOUT GUIDE

The following sections describe the rear panel connector pinouts.

- [Analog Audio/LTC timecode breakout cable](#)
- [AES Digital Audio connector \(rear panel\)](#)
- [GPI I/O connector](#)
- [RS-422 connectors](#)
- [RS-232 connectors](#)

Analog Audio/LTC timecode breakout cable

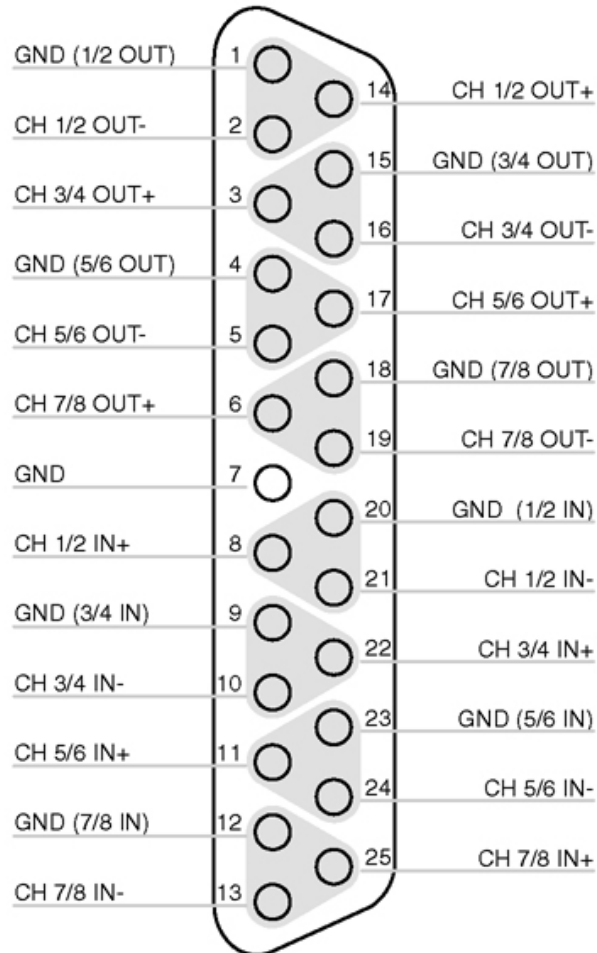
The Analog audio and LTC timecode connectors on the rear panel are 5-pin male “Tini Q-G XLR Microphone” (TQG) connectors. A single-channel XLR breakout cable is used to provide standard XLR input and output Analog Audio and LTC (timecode) connections for all QuVIS video servers (QuVIS Acuity/Encore/Ovation/Cinema Player). The following diagram details the pin assignments for the Analog audio and LTC breakout cable.



AES Digital Audio connector (rear panel)

There are two DB25 connectors on the QuVIS Acuity/Encore/Ovation/Cinema Player rear panel that provide digital I/O for 12 channels in the AES/EBU format. Each DB25 connector supports up to 8 channels in and out but only 4 channels are currently available on the connector labeled *Digital Audio I/O 9-12*. AES Digital breakout (DB25-to-XLR) cables that break out to standard XLR connectors for connecting to external audio equipment are available from QuVIS.

**AES Digital Audio (8-Channel) 25-pin (DB-25) Rear-panel
Connector Pinout Diagram**



<u>Channel Number</u>	<u>Output (+/-) Pin numbers</u>	<u>Input (+/-) Pin numbers</u>
1/2	14, 2	8, 21
3/4	3, 16	22, 10
5/6	17, 5	11, 24
7/8	6, 19	25, 13

Note: The pinout assignment for Digital Audio Connector 9-12 is the same as the pinout diagram for Digital Audio Connector 1-8 (shown).

GPI I/O connector

The GPI I/O connector is used to communicate with external equipment (GPI outputs) and integrate with automation control systems. GPI Inputs are used to trigger predefined system functions. GPI Outputs are flexible allowing the type of signal and signal duration to be defined by the operator. GPI Output signal are defined and executed within a playback script.

There are two types of GPI connectors currently in use, a 15-pin connector (DB-15) and a new 26-pin Mini Delta Ribbon (MDR-26) connector. The new 26-pin MDR connector replaces the DB-15 connector.

As of September 2005, the MDR-26 connector is now the standard GPI connector for all new current generation servers (QuVIS Acuity, Encore, Cinema Player, and Ovation). MDR-26 GPI breakout cables are available for purchase from QuVIS. The 26-pin GPI breakout cable has a molded MDR-26 connector on one end. The other end does not have an attached connector in order to allow custom wiring. For best results we recommend that you ohm each wire as you create your custom connections.

Modular 3M connector part numbers are provided below if you wish to build a custom-cabling configuration.

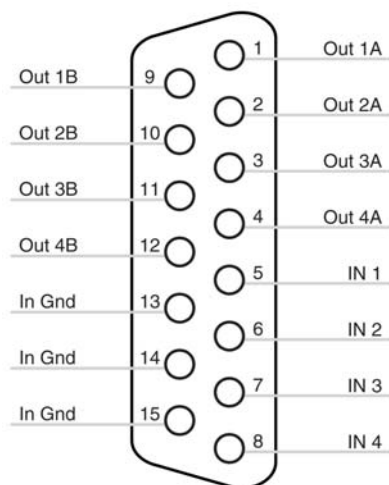
External solder connector part number (3M): *10126-3000VE*

External connector shell (3M): *10326-52F0-008*

The pinout diagrams for both rear panel GPI I/O connectors are described below.

DB-15 (15-pin) GPI rear-panel connector

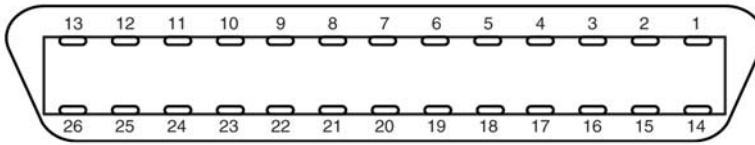
GPI (DB-15) Rear-Panel
Connector Pinout Diagram



Note: Input grounds are isolated from the rest of the system.

MDR-26 (26-pin) GPI rear-panel connector

GPI 26-pin Rear-Panel
Connector Pinout Diagram



Pin #	Description
1	Output Channel 1A
2	Output Channel 2A
3	Output Channel 3A
4	Output Channel 4A
5	Output Channel 5A
6	Output Channel 6A
7	Output Channel 7A
8	Output Channel 8A
9	Output Channel 9A
10	Output Channel 10A
11	GND
12	Input Channel 1
13	Input Channel 3
14	Output Channel 1B
15	Output Channel 2B
16	Output Channel 3B
17	Output Channel 4B
18	Output Channel 5B
19	Output Channel 6B
20	Output Channel 7B
21	Output Channel 8B
22	Output Channel 9B
23	Output Channel 10B
24	GND
25	Input Channel 2
26	Input Channel 4

GPI connector general properties

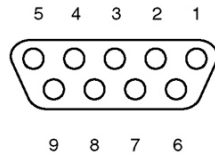
GPI Input Characteristics	Description
Interface Type	5V TTL or relay contact
Maximum Voltage (Input to InGnd)	+10V
Minimum Voltage (Input to InGnd)	-0.5V
Contact Current Required to Activate	4 mA
GPI Output Characteristics	Description
Interface Type	Solid state relay contact (AC/DC)
Maximum Voltage (A to B)	+/- 50V
Maximum Current (A to B)	500 mA

IMPORTANT! Never connect external voltage to the GPI inputs or outputs, or damage may result. The inputs should be pulled to ground with 'TTL-Level' devices or relay closures to common/ground.

RS-422 connectors

The following is the pinout assignment for the RS-422 connectors on the rear panel of the QuVIS Acuity/Encore/Ovation/Cinema Player.

RS-422 Connectors (DB9 Female)

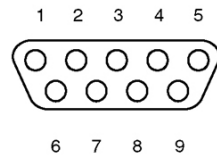


Pin #	Signal	Description
1	GND	Signal Ground
2	-TXD	Differential Transmit Data (low)
3	+RXD	Differential Receive Data (high)
4	GND	Signal Ground
5	Not Used	
6	GND	Signal Ground
7	+TXD	Differential Transmit Data (high)
8	-RXD	Differential Received Data (low)
9	GND	Signal Ground

RS-232 connectors

The following is the pinout assignment for the RS-232 connectors located on the front bezel and rear panel of the QuVIS Acuity/Encore/Ovation/Cinema Player.

RS-232 Connectors (DB9 Male)



Pin #	Signal	Description
1	DCD	Data Carrier Detect
2	RXD	Receive Data
3	TXD	Transmit Data
4	DTR	Data Transmit Ready
5	GND	Signal Ground
6	DSR	Data Send Ready
7	RTS	Ready To Send
8	CTS	Clear To Send
9	Not Used	

Note: QuVIS video servers only use three (3) pins for null modem communication. Pins 2, 3 and 5 are mapped to pins 3,2 and 5 on the serial terminal (PC).