QIO Expansion Module



This optional board adds multiple in- and outputs to the HDQLINE display platform and therefore increases the flexibility and the number of possible applications for this family of professional broadcast displays. Among them are 2x 10GigE SMPTE ST 2110/ST 2022 Video-over-IP (up to 3 channels each) interfaces.

Complete list of interfaces:

- 2x 10GigE interfaces supporting ST2110/ST2022
- 2x 2x 3G SDI input/output*
- -2x6GSDI input*
- -2x3GSDI input/output*
- -1xGigE

- → 2x Fiber (SFP+ modules not included)
- → 2x Dual coax/fiber (SFP modules not included)
- → 2x HD BNC
- → 2x HD BNC
- → RJ 45, monitoring

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SFP 3	SFP 3, SFP cage Mode LED	Prepared for single/dual SDI Rx SFPs (copper or fiber, Non MSA) 1.5, 3.0G
SFP 4	SFP 4, SFP cage Mode LED	Prepared for single/dual SDI Rx SFPs (copper or fiber, Non MSA) 1.5, 3.0G
SFP 5 10GE	SFP 5, SFP cage Mode LED	10GigE module, MSA pinout Red: SFP inserted, Green: Link established
SFP 6	SFP5, SFP cage	10GigE module, MSA pinout
	Mode LED	Red: SFP inserted, Green: Link established
SDI 3 6G/12G	SDI 3 input	Prepared for up to 6G SDI
• SDI 4 6G/12G	SDI 4 input	Prepared for up to 6G SDI
● SDI 5 3G I/O	SDI 5 input/output	Prepared for up to 3G SDI
● SDI 6 3G I/O	SDI 6 input/output	Prepared for up to 3G SDI
LAN OPTION	LAN	Debug an d monitoring of QIO board





QIO Expansion Module



Technical Specifications

General

Model QIO Expansion Module

Media over IP Option for HDQLINE Broadcast displays

Video over IP

SMPTE ST 2022-6 SDI over IP

SMPTE ST 2110-10/20 Video over IP

Up to 3 IP video inputs Receive via dual 10GE SMPTE ST 2022-7 supported

Audio over IP

SMPTE 2110-30 Linear PCM audio over IP (Video stream has to be present)

Up to 16 IP audio input streams Receive via dual 10GE SMPTE ST 2022-7 supported

Video format

SD-SDI Not supported yet

HD-SDI SMPTE ST 292/ST 296/ST 274

1920 x 1080i: 25/29.97/30

3G-SDI SMPTE 424 (Level A)/ST 274

1920 x 1080p: 50/59.94

Timing

PTP profile support SMPTE 2059-2 PTP profile

Media Timing SMPTE ST 2059-1, SMPTE ST 2110-10

Electrical / Mechanical

Operating Temperature 5 °C - 35 °C

Power Requirement DC12-24V, supplied by HDQLINE display

Power consumption typ (± 5% tolerance) 22

Dimensions (Width x Height x Depth) 157mm x 172mm x 18mm (fits into HDQLINE option slot)

Weight approx. 200



^{*}Remark: Some features mentioned in this document may not be released yet. Please contact SONOVTS Media for availability