



## FLASHLINK

ADA-VMUX-SFP

# 16 stereo channel multiplexer and de-multiplexer

**The ADA-VMUX-SFP is used to transport a large number of analog and digital audio signals and can flexibly both add and drop audio channels on the same board ensuring an optimized fit to need.**

Its multiplex design is optimized for ensuring minimum latency in the audio network, by adding delay only at ingest point. The digital audio signals are transported completely asynchronously and bit transparently ensuring optimized audio quality and enabling transport of intercom systems utilizing AES.

The product can be ordered with 4 stereo pair inputs, 4 stereo pair outputs or 2 stereo pair inputs + 2 stereo pair outputs.

ADA-VMUX supports both optical and electrical networks, and can utilize existing SDI network for transport.

The card is easy to use with minimum setup needed and broadcast centric control enabled through Nevision's control panel support.

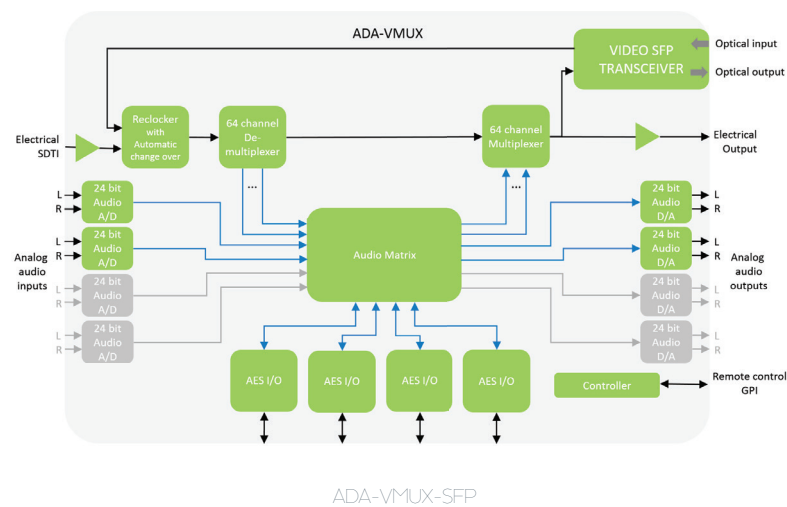
This product cannot be used in the Flashlink FR-2RU-10-2 frame or N-box.

### Applications

- Live media networking
- Audio contribution
- Intercom transport

### Key features

- Up to 64 stereo-pairs over SDTI per fiber
- Supporting ring network topologies
- Fully asynchronous audio transport of all channels
- 4 analog stereo pair ports
- 4 configurable AES ports
- All 64 channels on the multiplex available to any of the audio output ports
- CWDM support
- Optics removable with main board without detaching fiber connections.



The ADA-VMUX is an integrated analog and digital audio de-/multiplexer module in the Flashlink VMUX range. The product is a two card solution onto a single slot backplane for the FlashCase or FR202 frame. The two modules used are the AES-VMUX and one of the AES-8 audio converter modules.

The AES-VMUX is used to transport a large number of digital audio signals. The module is both a multiplexer and demultiplexer and has AES audio ports which may be used as inputs or outputs. The module forms the core of a highly flexible audio transport and routing concept. Modules may be daisy chained with other VMUX modules to increase the number of AES audio signals in the SDTI signal up to a maximum of 64 AES channels.

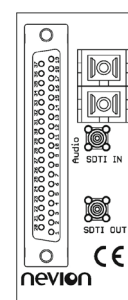
Demultiplexing may be performed on any module from any of the audio signals in the SDTI multiplex. Each demultiplex channel is, in effect, a 64 to 1 AES router.

The ADA-VMUX has 4 AES ports available and they may be inputs or outputs. This is dependent on the audio converter module in use. There are three audio converter modules that may be used giving either A/D conversion, D/A conversion or a combination of both. The audio conversion is broadcast quality with more than 105dB dynamic range for any conversion.

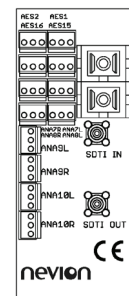
The ADA-VMUX may also be ordered with optical SFP options.

The demultiplex channels are presented as a router level to the Multicon control system allowing for panel control. Control of a distributed router system can easily be configured in the Nevision Configurator as a single virtual level. Panels may then control a router spanning several VMUX modules.

Signal status can be monitored with the front LEDs, the web interface or with SNMP.



ADA-VMUX-C1



ADA-VMUX-C2

**General**

Power	4.0W/5V
User interface	Status LED, Status GPI, configuration DIP switches Web interface and SNMP through Multicon controller
Operating temp.	0 – 40C

**Supported standards**

AES3-2003, SMPTE 305M, SMPTE-297

**Optical input**

No of inputs	1
Signal type	SDTI compliant audio multiplex
Connector	SC/UPC
Optical system	Nevion's optical video transceiver SFP range

**Optical output**

No of inputs	1
Signal type	SDTI compliant audio multiplex
Connector	SC/UPC
Optical system	Nevion's optical video transceiver SFP range

**Electrical multiplex input**

No of inputs	1
Signal type	SDTI compliant audio multiplex
Cable equalization	Automatic 300m @ SD-SDI w/ Belden 8281
Connector	DIN1.0/2.3 or HDBNC

**Electrical multiplex output**

No of inputs	1
Signal type	SDTI compliant audio multiplex
Signal polarity	Non-inverting
Level	800mV +/-10%
Connector	DIN1.0/2.3 or HDBNC

**Digital audio configurable I/O**

No of I/Os	4 (configured in groups of 2)
Signal type	AES-3
Connector	DB-37F, 110Ohm – C1 backplane Molex KK-3pin, 110Ohm – C2 backplane

**Analog audio input**

No of inputs	4 stereo pairs – ADC-AES-8 option 2 stereo pairs – ADDA-AES-8 option 0 stereo pairs – DAC-AES-8 option
Connector	DB-37F – C1 backplane Molex KK-3pin – C2 backplane
Impedance	24k Ohm
Dynamic range	typ. 107dB(A)
Frequency response	20Hz – 20kHz +/- 0.5dB
A/D conversion	24 bit

**Analog audio output**

No of outputs	4 stereo pairs – DAC-AES-8 option 2 stereo pairs – ADDA-AES-8 option 0 stereo pairs – ADC-AES-8 option
Connector	DB-37F – C1 backplane Molex KK-3pin – C2 backplane
Impedance	53 Ohm
Max. signal level	+24dBu
Dynamic range	typ. 105dB(A)
Frequency response	20Hz – 20kHz +/- 0.5dB
D/A conversion	24 bit

**Ordering options**

23987 ADA-VMUX	Analog and digital audio multiplexer over SDTI
23988 A DA-VMUX-SFP	Analog and digital audio multiplexer over SDTI with SFP interface.

See Nevion's optical video transceiver SFPs for applicable optical interface



## CONTACT INFORMATION

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