

FLASHLINK

DAC-AVA-DMUX

HD/SD 12bit digital to analog video converter with frame synchronizer and audio de-embedder

The Flashlink DAC-AVA-DMUX+ is a multipurpose processing card offering 12 bit HD/SD digital to analog video converter with frame synchronizer and audio de-embedding.

The built-in frame synchronizer with de-glitcher and analog/digital audio de-embedder capabilities make the DAC-AVA-DMUX+ the preferred choice for signal conversion applications.

It can be used as an SD and/or HD A/D converter, an SD and/or HD frame synchronizer, an analog/digital audio de-embedder or a mix of the above. Feature limited product versions are available that can be software upgraded to its full feature set at any time. The product is also available with an optical input port.

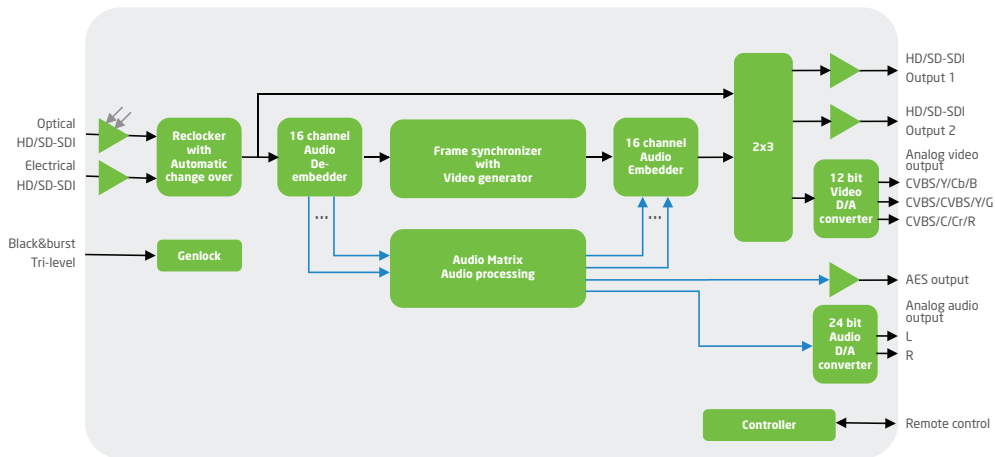
The extensive manual control through DIP, push and rotary switches enables the module to be efficiently used as a stand-alone unit, enclosed in the small Flashlink N-BOX enclosure.

Applications

- Studio infrastructure
- Dark fiber transport
- Signal conversion
- Frame synchronization
- Audio monitoring

Key features

- 12 bit video conversion
- 3 analog video outputs supporting YPbPr, 3xCVBS RGB and S-VHS
- 2 SDI outputs
- 1 AES output (WECO)
- 1 stereo audio output (WECO)
- Frame synchronizer with de-glitcher
- Audio matrix and processing
- Option for optical receiver



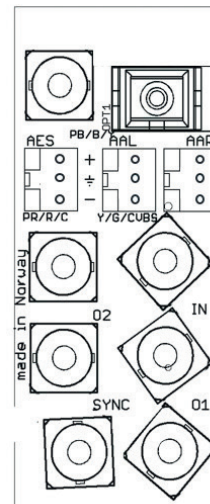
The Flashlink DAC-AVA-DMUX+ is an HD-SDI/SD-SDI video DAC with built-in frame synchronizer, optional SDI outputs and optional audio and data outputs.

The DAC-AVA-DMUX+ is an HD/SD frame synchronizer with an adjustable delay relative to the sync signal. The module accepts black & burst or a tri-level signal from the frame. The DAC-AVA-DMUX+ also has a de-glitcher to give error-free synchronous switching.

A set of configurable analog video outputs and two optional SDI digital outputs are provided.

The audio embedded in the HD-SDI or SD-SDI stream is de-embedded and can be delayed relative to video. Each audio channel can be swapped in an audio matrix before they are re-embedded in the SD-SDI data output stream. It is also possible to turn embedding completely off and leave the SDI stream unaltered.

A selection of user parameters of the card can be controlled by switches on the board. Complete control of all parameters is available by use of the Flashlink RS422 Control Protocol Version 4, which is supported by the Multicon system controller.



Back Panel

General

Power	4.8W/5V, 2.7W/15V, 0.8W/-15V
User interface	Status LED, Status GPI, configuration DIP, switches Web interface and SNMP through Multicon controller
Operating temp.	0 – 40C

Supported standards

SMPTE RP168, SMPTE-170m, ITU-R BT.470, SMPTE-259M, SMPTE 272M-AC, SMPTE-274M, SMPTE-291M, SMPTE-292, SMPTE-296M, SMPTE-297, SMPTE 299M, SMPTE-RP165, AES3-2003, SMPTE 352-2002

Optical input

No of inputs	1
Signal type	HD-SDI, SD-SDI
Sensitivity <	-22dBm
Detector overload	> -3dBm
Optical range	1200nm – 1620nm
Connector	SC/UPC

Electrical SDI input

No of inputs	1
Signal type	HD-SDI, SD-SDI
Cable equalization	Automatic 100m @ HD-SDI w/ Belden 1694A 300m @ SD-SDI w/ Belden 8281
Connector	BNC, 75 Ohm

Electrical SDI output

No of outputs	2
Signal type	HD-SDI, SD-SDI
Signal polarity	Non-inverting
Level	800mV +/-10%
Connector	BNC, 75 Ohm

Analog video output

No of outputs	1x component or 3x composite
Signal type	PAL/NTSC, SD RGB/YUV, HD RGB/YPbPr
Connector	3x BNC, 75 Ohm
Return loss	> 40dB @ < 5MHz, > 35dB @ < 10MHz, > 30dB @ >30MHz
S/N ratio	< -60dB
Diff. gain	< 0.5%
Diff. phase	< 1deg
D/A conversion	12 bit

Electrical sync input

No of inputs	1
Supported formats	Black&Burst, Tri-level
Connector	BNC, 75 Ohm
Return loss	< -35dBm @ <10MHz < -30dBm @ <30MHz

Digital audio output

No of outputs	1
Signal type	AES-3
Connector	WECO 3pin, 110 Ohm

Analog audio output

No of outputs	1 stereo pair
Connector	WECO
Impedance	< 66 Ohm
Max. signal level	24dBu
Dynamic range	> 100dB(A)
Frequency response	20Hz – 20kHz +/- 0.5dB
A/D conversion	24 bit

Ordering options

DAC-AVA-DMUX+ 22760	12bit digital to analog HD/SD converter hardware
DAC-AVA-DMUX-R+ 22985	12bit digital to analog HD/SD converter hardware w/ optical receiver
DAC OPT FORMAT SD 22761	SD format support for DAC-AVA-DMUX+
DAC OPT FORMAT HD 22762	HD format support for DAC-AVA-DMUX+
DAC OPT FRAMESYNCSDI 22763	SDI output w/frame synchronizer enabled for DAC-AVA-DMUX+



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