

OC-4B-SDI Technical specifications

The OC-4B-SDI is the most flexible Optical video distribution product on the market today.

The OC-4B-SDI is a 1 card solution for all your Optical video distribution needs. This include Optical video links, Optical signal distribution and Add/Drop/Pass Optical video distribution.

It has the capacity for 4 channels that can be built up as the customer needs greater capacity. OC-4B-SDI has high quality specification with innovative features such as Flexi I/O™ technology and Auto SFP configuration.



Optical ports

Number of ports:	Up to 4 (2 per SFP)
Direction:	Depends on SFP, See Optical and SFP guide
Optical performance:	See Optical and SFP guide
Connector type:	LC/PC according to SMPTE-297M-2006
Fiber Type:	Single mode 9/125um
Maximum reflected power:	14dB
Connector return loss:	≥26 dB
Transmitter light source:	F-P and DFB lasers with WDM and CWDM options. See Optical and SFP guide
Receiver detector:	Medium or high sensitivity. See Optical and SFP guide
CWDM channel grid:	20nm

Electrical inputs

Number of inputs:	4 Flexi I/O™
Data rate:	19.4 Mbps - 2970 Mbps
Cable equalization:	Up to 100m of Belden 1694A @ 2.97Gbps Up to 150m of Belden 1694A @1.485Gbps Up to 300m of Belden 1694A @270Mbps *
Connector type:	BNC
Impedance:	75 ohms
Signal level:	800mV p-p nominal
Return loss:	≥15 dB [5-1485 MHz], ≥10dB [1485-2970MHz]

* for mixed signal environments, recommended cable length on 270Mbps should follow HD standard.

Electrical outputs

Number of outputs:	4 (8 including Flexi I/O™)
Signal polarity:	All outputs non-inverting
Connector type:	BNC
Impedance:	75 ohm
Signal level:	800mV p-p ±10%
Return loss:	≥15 dB [5-1485 MHz], ≥10dB [1485-2970MHz]
Reclocking:	270Mbps, 1.483/1.485Gbps, 2.966/2.970Gbps, Auto-matic bypass for other rates
Alignment jitter:	≤ 0.2UI
Timing jitter:	≤ 1.0UI, ≤ 0.2UI @ 270Mbps

General

Operating voltage:	+12Vdc to +24Vdc/ 10W max
Working Temperature:	0 to +45°C
Card weight:	70 grams (OC-4B-SDI)
Rear connector weight:	65 grams (OC-4B-SDI-B1)

Supported standards

SMPTE:	292M-2008, 259M-2008, 297M-2006, 305M-2005, 310M-2004, 424M-2006
DVB-ASI:	EN50083-9
ITU: SFP-MSA	ITU-T G.694.2 for CWDM applications SFF-8074i, SFF-8472 (DDMI)

Control interface

Control	AUTO SFP configuration with RCONmini for remote status and setup. See RCONmini user manual
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LED indication

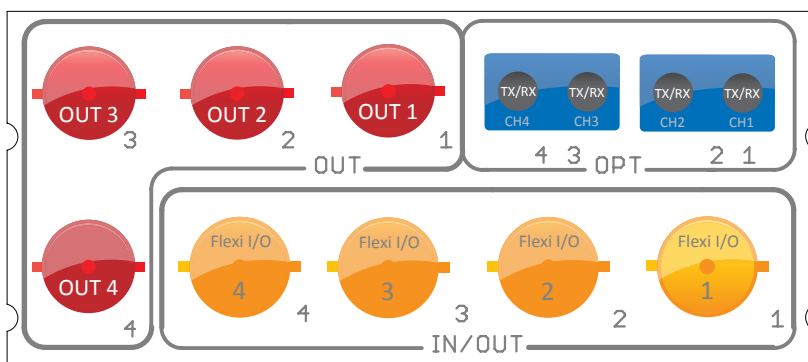
Front mounted leds to indicate SFP type, and confirmation of input presence and lock.

DIP sx

DIP sx selection for Distribution or Link mode

OC-4B-SDI back panel

Model No:	OC-4B-SDI-B1
SFP slots	2
SFP type	Norwia approved only, see Optical and SFP guide
BNC (Standard O/P)	4 x 75 ohm output
BNC (Flexi-IO)	4 x 75 ohm (input or output)



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