

SDI / ASI Fiber Optical Transport

SOC—SDI/ASI Series



◆ Features:

- Electrical to optical converter, automatic input cable equalization. Status LEDs for power supply, signal presence indication, Laser status. Support RS485 manage port. Include SDI/ASI input port, SDI/ASI loop output port, SC/UPC optical output port.
- Optical to electrical converter, With re-clocker support. Status LEDs for power supply, signal presence indication, signal reclocked indication, signal bypass indication. Support RS485 manage port. Include 2 SDI/ASI output port, SC/UPC optical input port.
- 19" 1RU frame (3 slot) and 3RU (10 slot) frame available. redundant power supply are available for both frame.
- 1310nm, 1550nm, CWDM laser available.
- SOC-SDI-A, Occupise one card slot and can be housed in a SOC-SDI-1RU frame which will hold up to three modules. Support all SMPTE 259M standards with operation from 143Mbps – 360Mbps.
- SOC-SDI-B, Occupise one card slot and can be housed in a SOC-SDI-1RU frame which will hold up to three modules. Support all SMPTE 259M/297M/310M/344M standards with operation from 19.4Mbps – 540Mbps, And full DVB-ASI compatibility.

◆ Applications:

- DVB backhall and production
- SDI / DVB-ASI Transport
- Sports and outside broadcast
- General purpose digital video transport
- remote studios

SOC-SDI/ASI Specifications

Electrical Specifications		
1	Data rate NRZ	SDI, DVB-ASI 19.4Mbps-540Mbps
2	Equalisation	Auto, up to 35dB
3	Impedance	75 ohm
4	Return loss	>15dB @270MHz
5	Signal level	Nominal 800mV
6	Connector:	BNC
7	Rise/fall time:	Typ. 300ps
8	Jitter (UI=unit interval)	0.2 UI max.
9	Number of SDI outputs	2
Optical Specifications		
1	Optical power	-9 dBm (0dBm optional)
2	Sensitivity SDI-OE	-25dBm typ.
3	Optical wavelength	Single Mode λ_c : 1310nm \pm 40nm
4	Optical wavelengths:	1200-1620 nm
5	Connector return loss	better than 40 dB typ.
6	Connector	SC/UPC
Chassis Specifications		
1	AC power	220 V/AC (Redundance power optional)
2	Dimensions	483 x 44 x 220 mm (19", 1RU) 483 x 132 x 180 mm (19", 3RU)
3	Card slots	1RU (3), 3RU (10)
4	Weight	1RU Full 3 kg
Order Information		
1	SOC-SDI-1U, SOC-SDI-3U	
2	SDI-EO -9dBm / -3dBm	
3	SDI-OE	
4	SOC-SDI-AC1U, SOC-SDI-AC3U	
5	SOC-SDI-MGN	
6	The CWDM system is a optional for transmit 2 - 8 channels SDI / ASI signal through one fiber.	

* Specification subject to change without notice *