



Optical Converters & HFO Transmission Device

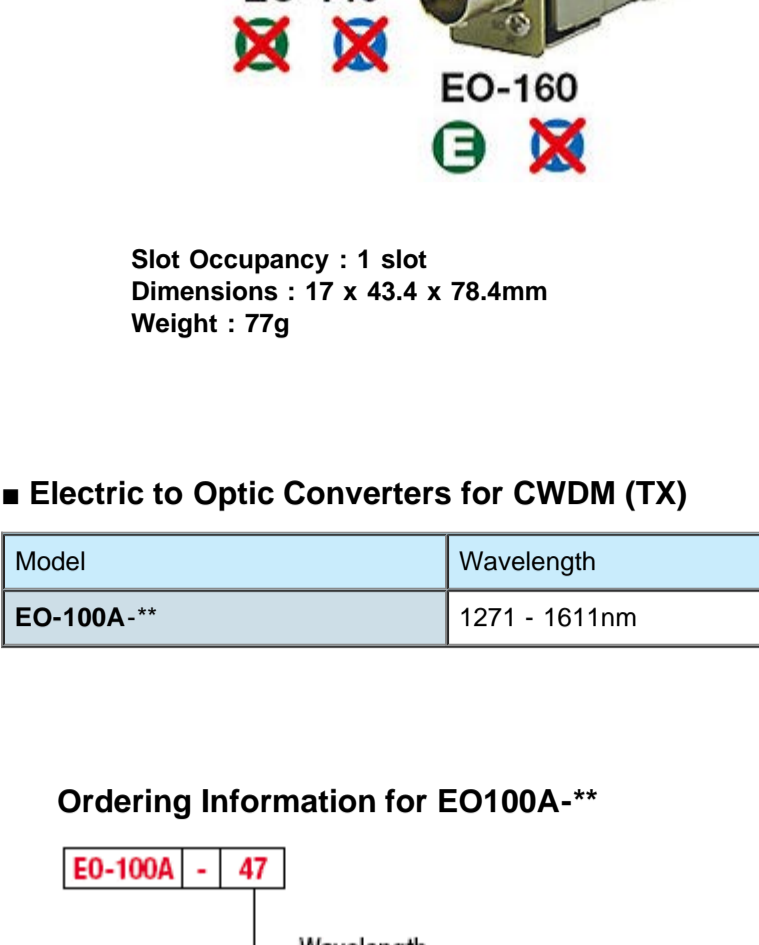
EO / OE Converters

Canare's answer for HD-SDI distribution. We upgraded our EO/OE modules and offer them at lower prices.

Electric to Optic Converters (TX)

Model	Wavelength	Emission	Equalizer	Reclocker
EO-100B NEW	1310nm	-3.5dBm	Yes	Yes
EO-140 *			No	No
EO-160 *			Yes	No

*Production by order. Please ask us for ordering lot.



Slot Occupancy : 1 slot
Dimensions : 17 x 43.4 x 78.4mm
Weight : 77g

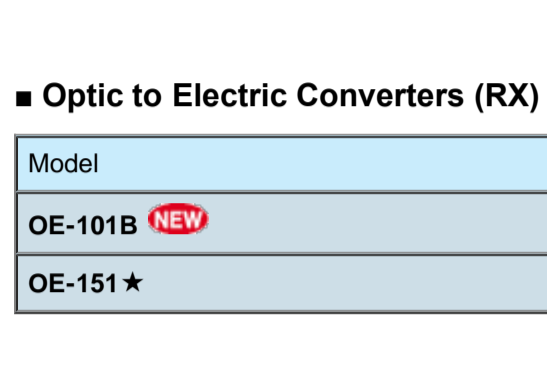
Electric to Optic Converters for CWDM (TX)

Model	Wavelength	Emission	Equalizer	Reclocker
EO-100A-**	1271 - 1611nm	-2.5dBm	Yes	Yes

** Please see the following ordering information for complete model number.

Ordering Information for EO100A-**

Wavelength	TX	RX	
47	1471nm	27	1271nm
49	1491nm	29	1291nm
51	1511nm	31	1311nm
53	1531nm	33	1331nm
55	1551nm	35	1351nm
57	1571nm	37	1371nm
59	1591nm	39	1391nm
61	1611nm	41	1411nm

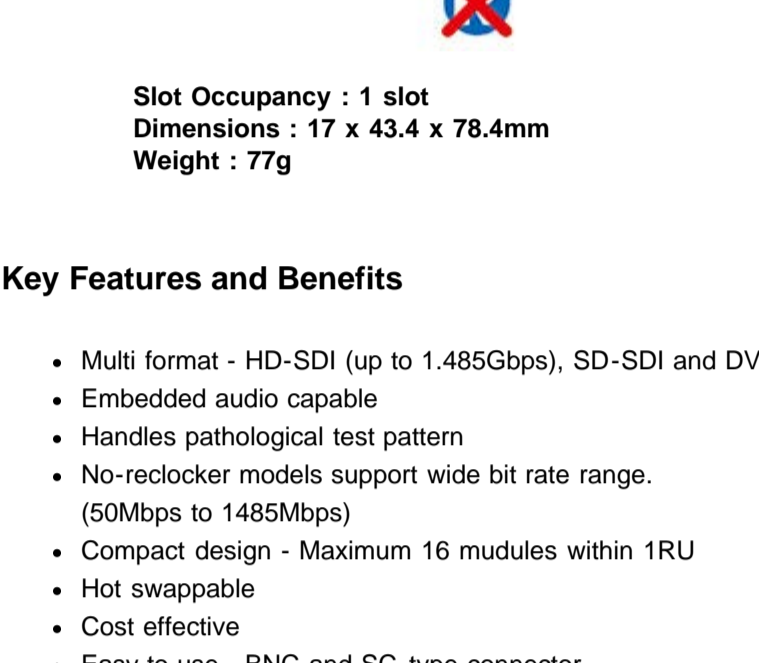


Slot Occupancy : 1 slot
Dimensions : 17 x 43.4 x 79.2mm
Weight : 58g

Optic to Electric Converters (RX)

Model	Wavelength	Sensitivity	Reclocker
OE-101B NEW	1200 - 1620nm	-24dB	Yes
OE-151 *			No

* Production by order. Please ask us for ordering lot.



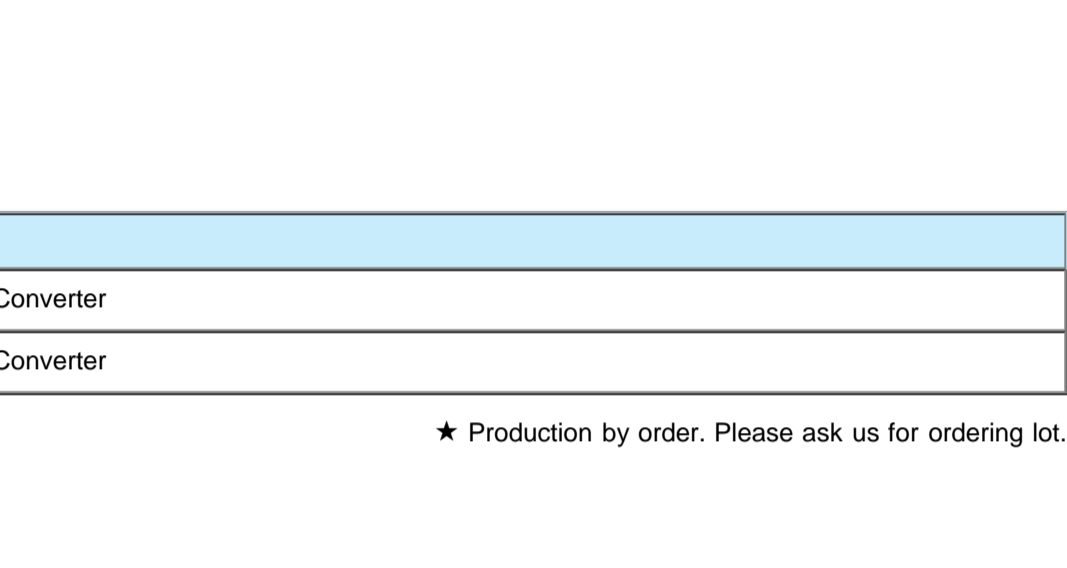
Slot Occupancy : 1 slot
Dimensions : 17 x 43.4 x 78.4mm
Weight : 77g

Key Features and Benefits

- Multi format - HD-SDI (up to 1.485Gbps), SD-SDI and DVB-ASI
- Embedded audio capable
- Handles pathological test pattern
- No-reclocker models support wide bit rate range. (50Mbps to 1485Mbps)
- Compact design - Maximum 16 modules within 1RU
- Hot swappable
- Cost effective
- Easy to use - BNC and SC-type connector.

Note : No-equalizer models are usable only in case of the coaxial cable part in a system is short and allow further cost reduction.

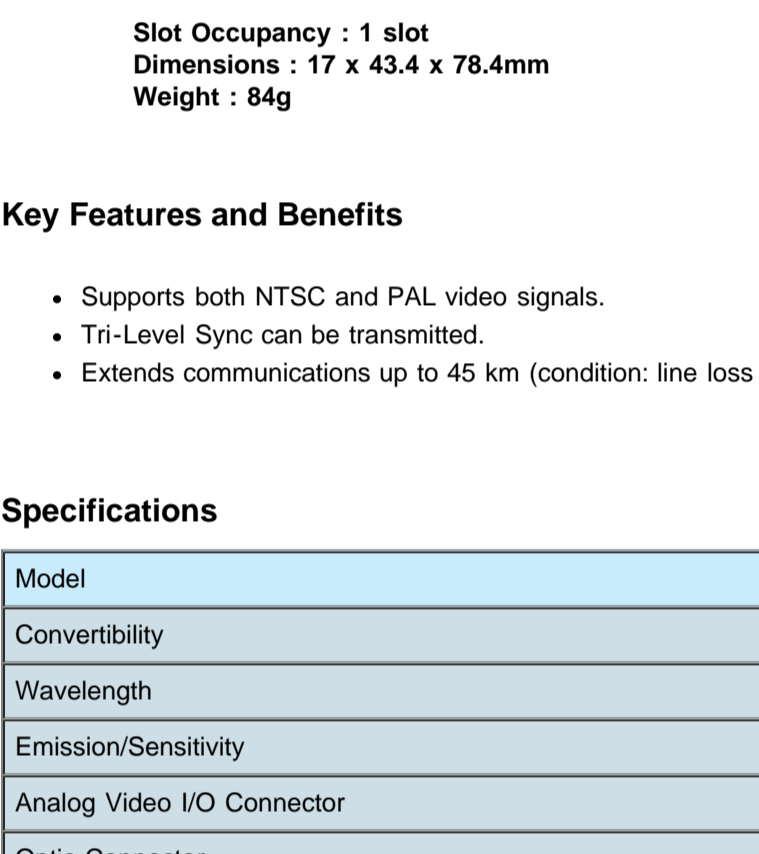
HD-SDI Transmission Distance (for Reference)



Analog Video Optical Converters

Model	Description
EO-700 *	NTSC/PAL Electric to Optic Converter
OE-701 *	NTSC/PAL Optic to Electric Converter

* Production by order. Please ask us for ordering lot.



Slot Occupancy : 1 slot
Dimensions : 17 x 43.4 x 78.4mm
Weight : 84g

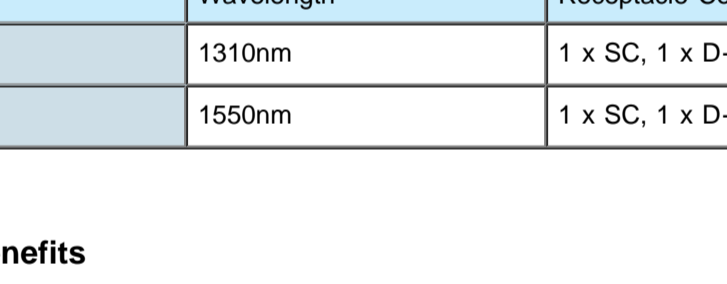
Key Features and Benefits

- Supports both NTSC and PAL video signals.
- Tri-Level Sync can be transmitted.
- Extends communications up to 45 km (condition: line loss 0.5dB/km)

Specifications

Model	EO-700	OE-701
Convertibility	Electric to Optic	Optic to Electric
Wavelength	1310nm	1200 to 1620nm
Emission/Sensitivity	-3.5dBm	-26dBm
Analog Video I/O Connector	1 x 75Ω BNC/INPUT	1 x 75Ω BNC/OUTPUT
Optic Connector	1 x SC-type (Single Mode)	
Signal to Noise Ratio	60dB	
Bandwidth	6MHz	
Typical Compliances	SMPTE 170M, ITU-R BT.470, CB, CE, UL/CUL, FCC Part15 ClassA, FDA, RoHS	

RS-422/RS-232 Optical Converters



Slot Occupancy : 3 slots
Dimensions : 54 x 43.4 x 76.2 mm
Weight : 110g

Model	Wavelength	Receptacle Connector
TRM-220 * NEW	1310nm	1 x SC, 1 x D-sub 9 pin (F) w/4-40 screws
TRM-221 * NEW	1550nm	1 x SC, 1 x D-sub 9 pin (F) w/4-40 screws

*Production by order. Please ask us for ordering lot.

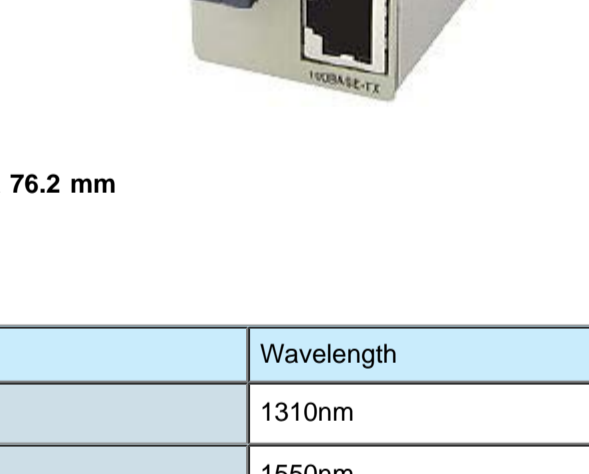
Key Features and Benefits

- TIA-422, SMPTE 207M, RS-232
- Usable in a case of RS-422 => RS-232
- Extends communications up to 34 km (condition: line loss 0.5dB/km)
- Bi-directional optical interface



Note: Please use TRM-220 and TRM-221 in pairs.

100BASE-TX Optical Converters



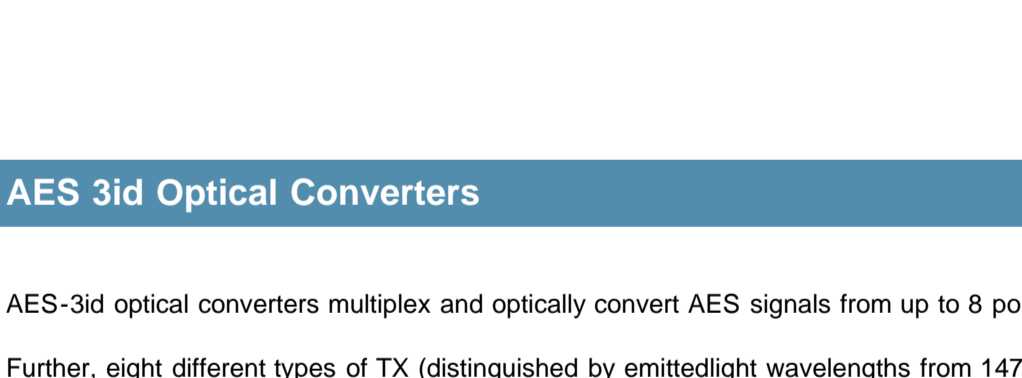
Slot Occupancy : 2 slots
Dimensions : 35.5 x 43.4 x 76.2 mm
Weight : 103g

Model	Wavelength	Receptacle Connector
TRM-210 * NEW	1310nm	1 x SC, 1 x RJ45
TRM-211 * NEW	1550nm	1 x SC, 1 x RJ45

* Production by order. Please ask us for ordering lot.

Key Features and Benefits

- Media convert for Fast Ethernet.
- Auto MDI/MDX
- Extends communications up to 34 km (condition : line loss 0.5dB/km)
- Bi-directional optical interface



Optical Fiber 100m

Note1: Please use TRM-210 and TRM-211, in pairs.
Note2: 10BASE-T is unsupported.

AES 3id Optical Converters

AES-3id optical converters multiplex and optically convert AES signals from up to 8 ports (16 audio channels) to allow them to be transmitted over long distances.

Further, eight different types of TX (distinguished by emitted wavelengths from 1471nm to 1611nm) use coarse wavelength division multiplexing (CWDM) to allow AES signals from up to 64 ports (128 audio channels) to be transmitted via a single fiber-optic cable.

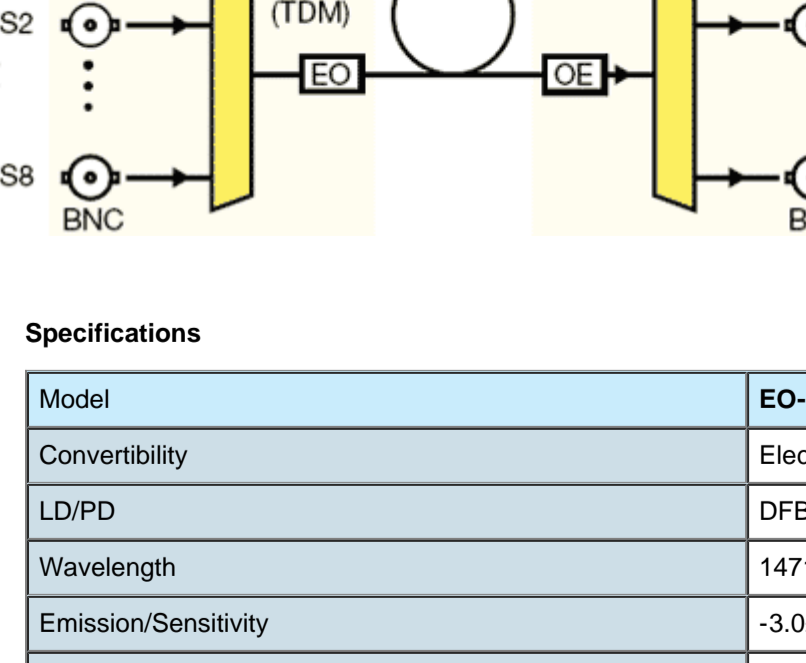
Model	Description
*EO-500-**	AES-3id Electric to Optic Converter
*OE-501	AES-3id Optic to Electric Converter

** Please see the following ordering information for complete model number.
*Production by order. Please ask us for ordering lot.

EO-500-55



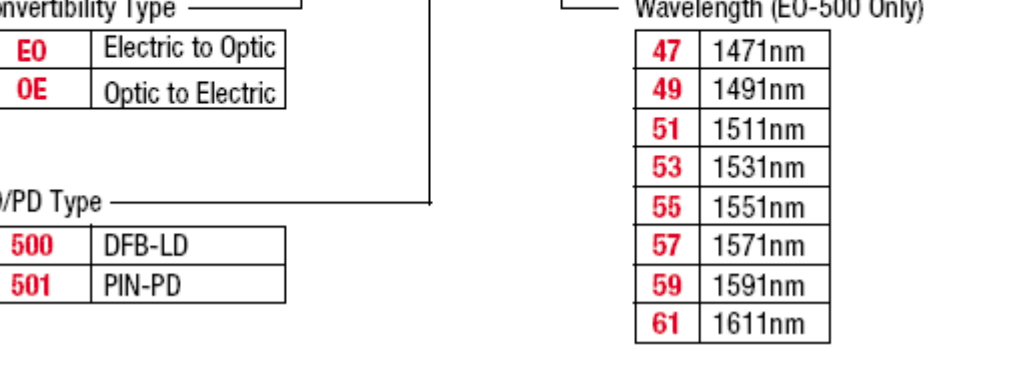
OE-501



Slot Occupancy : 5 slots
Dimensions : 76.2 x 43.4 x 91mm
Weight : 170g

Key Features and Benefits

- AES-3id-1995 and SMPTE 276M
- Fully asynchronous and SMPTE 276M.
- Word clock can be transmitted (30kHz to 50kHz).
- Dolby-E compatible



Specifications

Model	EO-500-**	OE-501
Convertibility	Electric to Optic	Optic to Electric
LD/PD	DFB-LD	PIN-PD
Wavelength	1471 to 1611nm	-
Emission/Sensitivity	-3.0 to 1.0dBm	-26dBm
AES in/out	75 Ω BNC x8 / Input	75 Ω BNC x8 / Output
Power Supply (Max. Unit)	161UPSB (3), 6PS (1)	
Optic Connector	1 x SC-type (Single Mode)	
Sampling Rate	30KHz to 50KHz	
Power Req., Consump.	DC5V, 2.5W	
Operating Temperature	0 to 40°C	
Typical Compliances	AES-3id-1995, SMPTE 276M, CB, CE, UL/CUL, FCC, FDA, EMC, IEC 60825-1 Class 1 Laser	

Ordering Information

Convertibility Type	Wavelength (EO-500 Only)
EO Electric to Optic	47 1471nm
OE Optic to Electric	49 1491nm
	51 1511nm
	53 1531nm
	55 1551nm
	57 1571nm
	59 1591nm
	61 1611nm

LD/PD Type
500 DFB-LD
501 PIN-PD

HFO Transmission Device with EO/OE Modules

Canare FCB series feature Hybrid Fiber Optic (HFO) camera connector interface with EO/OE modules inside. You can optimize HD/SDI equipment, which doesn't have optic connector interface.

Model	Description
*FCB-FF3W1	EO/OE Box with SMPTE HFO Connector (Female)
*FCB-FM3W2	EO/OE Box with SMPTE HFO Connector (Male)
*FCB-OF3W1	EO/OE Box with Japanese HFO Connector (Female)
*FCB-OM3W2	EO/OE Box with Japanese HFO Connector (Male)

*Production by order

Key Features and Benefits

- All-in-one solution EO/OE modules and power unit
- Ideal for outside broadcasting
- Maximizing existing HFO camera assemblies
- Flexible configuration for EO/OE modules
- AC and DC input redundancy

Specifications

Model	FCB-FF3W1	FCB-FM3W2	FCB-OF3W1	FCB-OM3W2	
EO/OE Config.	SDI1 Slot	EO-100B	OE-101B	EO-100B	OE-101B
	SDI2 Slot	OE-101B	EO-100B	OE-101B	EO-100B
HFO Connector	Canare FCFRA (SMPTE, Female)	Canare FCMRA (SMPTE, Male)	Canare OCFRA (Japanese, Female)	Canare OCMRA (Japanese, Male)	
SDI I/O Connector	2x 75 ohm BNC				
EXT Connector	2x XLR3 Female	2x XLR3 Male	2x XLR3 Female	2x XLR3 Male	
Power Requirement	AC100 to 240V, DC 12V				
Power Consumption	Max. 10W				
Power Connector	AC3P Jack XLR4 Male (DC)				
Operating Temperature	0 to 40°C				

FCB-FM3W2



FCB-FF3W1



Rear view