yellobrik® OTX 1842

3Gbit SDI to Fiber Optic Transmitter (CWDM)

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- Reclocked SDI loop output
- 18 wavelength selections (ITU-T G.694.2)
- Error free optical transmission
- Up to 40km (24.85 miles) @ 3Gbit
- Simplex LC singlemode optical connection
- Supports hot swapping and hot plugging

The OTX 1842 is a compact CWDM SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with the fiber optic to SDI receiver (e.g. yellobrik ORX 1802) you have a very cost effective optical transmission / receiver system for signals up to 1080p60 (3Gbit/s), while preserving full uncompressed quality. Select from 18 wavelengths for full CWDM compatibility.

The OTX 1842 will auto-detect any connected video signal from 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, as well as DVB-ASI.

The module does not include a Fiber SFP sub module, an option MUST be selected from the table below.

Ordering Info:
Note. The **OTX 1842** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below when ordering.

Non CWDM Version

Wavelength	Power	Option #
1550nm	-1dBm	OH-TX-3-1550

CWDM Wavelength Options. ITU-T G.694.2 (select one)

Wavelength	Power	Option #	Wavelength	Power	Option #
1270nm	-1dBm	OH-TX-4-1270	1450nm	-1dBm	OH-TX-4-1450
1290nm	-1dBm	OH-TX-4-1290	1470nm	-1dBm	OH-TX-4-1470
1310nm	-1dBm	OH-TX-4-1310	1490nm	-1dBm	OH-TX-4-1490
1330nm	-1dBm	OH-TX-4-1330	1510nm	-1dBm	OH-TX-4-1510
1350nm	-1dBm	OH-TX-4-1350	1530nm	-1dBm	OH-TX-4-1530
1370nm	-1dBm	OH-TX-4-1370	1550nm	-1dBm	OH-TX-4-1550
1390nm	-1dBm	OH-TX-4-1390	1570nm	-1dBm	OH-TX-4-1570
1410nm	-1dBm	OH-TX-4-1410	1590nm	-1dBm	OH-TX-4-1590
1430nm	-1dBm	OH-TX-4-1430	1610nm	-1dBm	OH-TX-4-1610

Technical Specifications

Input	1 x SDI video on 75 Ohm BNC connector with reclocked loop output
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Multirate reclocking 270Mbit/s - 1.48Gbit/s - 2.97Gbit/s
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Optical Output	1 x fiber optic output Simplex (singlemode) using LC Connection
	SMPTE 297M - 2006
	Hot pluggable
	18 Wavelength selections per ITU-T G.694.2 (see table)
	TX active LED on side of module
	Singlemode fiber
	Max. distance 40km (24.8 miles) @ 3Gbit/s (single mode)
Power	+12VDC power supply (included) Supports external power input from 9 - 14 VDC Power LED on side of module Power Consumption 1.6W
Size	105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")
Model #	OTX 1842
Includes	Module, 12V DC power supply and plastic transport case

Fiber Optic Connection
LC Simplex (Singlemode) up to 40km (24.8 miles)
(not included)

Specifications subject to change