

## 3Gbit SDI to Fiber Optic Transmitter (CWDM)

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 270Mbit / 1.5Gbit / 3Gbit
- Relocked 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 and re-clock any 270Mbit / 1.5Gbit and 3Gbit SDI source prior to optical transmission. The module is fully compatible with 3Gbit Level A and Level B formats.



## Technical Specifications

<b>Input</b>	1 x SDI video on 75 Ohm BNC connector with relocked loop output SMPT E 424M, SMPT E 292M, SMPT E 259M, DVB-ASI Multi-standard operation from 270Mbit/s to 3Gbit/s Multi-rate relocking 270Mbit/s - 1.5Gbit/s - 3Gbit/s Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz Automatic cable EQ (Belden 1694A cable) 340m @ 270Mbit/s, 150m @ 1.5Gbit/s, 120m @ 3Gbit/s
<b>Optical Output</b>	1 x fiber optic output Simplex (singlemode) using LC Connection SMPT E 297M - 2006 Hot pluggable 18 Wavelength selections per ITU-T G.694.2 (see table) TX active LED on side of module Max. distance approx. 40km (24.8 miles) @ 3Gbit/s (single model)
<b>Power</b>	+12VDC @ 1.3W nominal without SFP +12VDC @ 1.8W nominal with SFP ( supports 7 - 16VDC input range )
<b>Physical</b>	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
<b>Model #</b>	OTX 1842 - ( EAN# 4250479359857 )
<b>Includes</b>	Module, AC power supply

## Power Adapter Options

The kit **INCLUDES** AC power supplies. The power adapters below are optional.



### P-TAP 1000

Use with a standard battery P-TAP power source.



### XLR 1000

Use with a standard 4 pin XLR camera battery power source.

## Ordering Info:

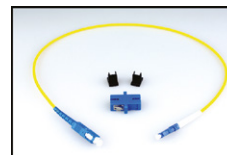
Note: The **OTX 1842** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below.

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

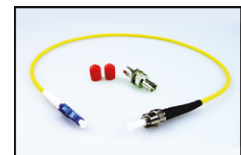
Wave-length	Power	Option #	Wave-length	Power	Option #
1270nm	-1dBm	<b>OH-TX-4-1270-LC</b>	1450nm	-1dBm	<b>OH-TX-4-1450-LC</b>
1290nm	-1dBm	<b>OH-TX-4-1290-LC</b>	1470nm	-1dBm	<b>OH-TX-4-1470-LC</b>
1310nm	-1dBm	<b>OH-TX-4-1310-LC</b>	1490nm	-1dBm	<b>OH-TX-4-1490-LC</b>
1330nm	-1dBm	<b>OH-TX-4-1330-LC</b>	1510nm	-1dBm	<b>OH-TX-4-1510-LC</b>
1350nm	-1dBm	<b>OH-TX-4-1350-LC</b>	1530nm	-1dBm	<b>OH-TX-4-1530-LC</b>
1370nm	-1dBm	<b>OH-TX-4-1370-LC</b>	1550nm	-1dBm	<b>OH-TX-4-1550-LC</b>
1390nm	-1dBm	<b>OH-TX-4-1390-LC</b>	1570nm	-1dBm	<b>OH-TX-4-1570-LC</b>
1410nm	-1dBm	<b>OH-TX-4-1410-LC</b>	1590nm	-1dBm	<b>OH-TX-4-1590-LC</b>
1430nm	-1dBm	<b>OH-TX-4-1430-LC</b>	1610nm	-1dBm	<b>OH-TX-4-1610-LC</b>

## Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



Model# **LC/SC SIM**  
LC/PC to SC/PC Adapter



Model# **LC/ST SIM**  
LC/PC to ST/SC Adapter

OTX1842-rev06 Specifications subject to change