

Analog Sync / Video Fiber Optic Transmitter (CWDM)

- Supports analog black burst, bi-Level, tri-Level sync signals and NTSC and PAL composite video
- Passive loop analog output
- Broadcast quality performance
- LC/PC fiber connection
- 18 wavelength selections (ITU-T G.694.2)
- Error free optical transmission
- Up to 40km (24.8 miles) singlemode
- Supports hot swapping and hot plugging
- yelloGUI compatible to access additional internal settings



The OTX 1742 is a compact analog sync or NTSC/PAL composite video to fiber optic transmitter (CWDM compatible). This device is specifically designed to combat the restrictions involved with the distribution of broadcast quality analog reference and composite video signals over long distances.

When paired with the fiber optic receiver ORX 1702 you have a cost-effective optical transmission system for analog sync reference signals or NTSC/PAL composite video. This device is particularly useful for reference sync distribution between remote installations to maintain correct synchronization.

Unlike other very basic analog to fiber conversion solutions, the OTX 1742 incorporates technology to maintain a very high degree of sync and burst phase stability during the conversion and fiber transmission.

The module converts the NTSC/PAL video signal to an SDI signal (including reference and other relevant information) before it is converted to fiber. Therefore, when the OTX 1742 is used for NTSC or PAL video sources it is possible to convert the fiber signal directly to SDI if required using an SDI receiver (e.g. ORX 1802).

Ordering Info:

Note: The **OTX 1742** 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)

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

Analog Input

Sync = analog black burst / SDTV bi-level / HDTV tri-level
 Video = NTSC / PAL Composite video
 1 x passive loop output (terminate if not used)
 75 Ohm BNC connectors

NTSC SMPTE 170M, PAL CCIR624
 Analog tri-level sync SMPTE ST 274, ST 296
 720p 50/59.94/60
 1080i 50/59.94/60
 1080p 23.97/24/25
 1080psF 23.97/24

Multi-standard operation, auto-detect

Return loss: 31dB to 10MHz

Fiber Out Singlemode

1 x fiber optic singlemode output
 LC connection

SMPTE 297M - 2006

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)

Power

+12VDC @ 3.5W nominal (supports 8 - 24VDC input range)

Physical

Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors
 Weight: 125g (4.4oz)

Ambient

5 - 40°C (41 - 104°F) 90% Humidity (non condensing)

Model

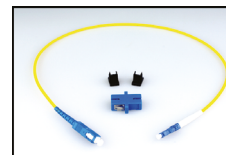
OTX 1742 - (EAN# 4250479320420)

Includes

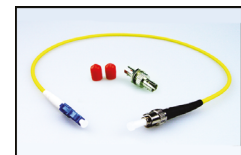
Module, 12V DC power supply

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

Specifications subject to change