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 reclocking 270Mbit / 1.5Gbit / 3Gbit
- 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 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

**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
- Multi-rate reclocking
  - 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

**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
- Max. distance approx. 40km (24.8 miles) @ 3Gbit/s (single mode)

**Power**
- +12VDC @ 1.3W nominal without SFP
- +12VDC @ 1.8W nominal with SFP
  (supports 7 - 16VDC 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 - 40ºC (41 - 104ºF)
- 90% Humidity (non condensing)

**Model #**
- OTX 1842 - (EAN# 4250479359857)

**Includes**
- Module, AC power supply

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

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<tr>
<th>Wavelength (nm)</th>
<th>Power (dBm)</th>
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**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.