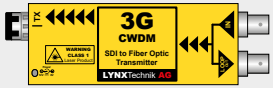
OCM1891_R05

yellobrik®

yellobrik® Quick Reference

Additional Fiber Modules:

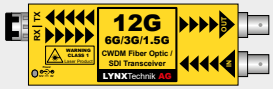


OTX 1842

3G SDI to Fiber Optic Transmitter
CWDM compatible, 18 Wavelengths available
Most ORX module can be receiver.

OTX 1440

12G SDI to Fiber Optic Transmitter
CWDM compatible, 18 Wavelengths available
Only 12G optical receivers



OTR 1440

12G SDI to and from Fiber Optic Transceiver
CWDM compatible, 18 Wavelengths available
Only 12G optical receivers

Technical Specifications

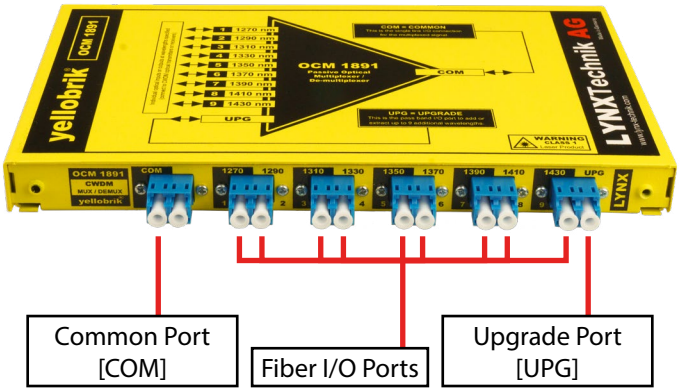
Size	L: 199mm (7.83") x W: 130mm(5.12") x H: 19mm(0.75") incl. connectors
Weight	230g (8.1oz)
Optical I/O	Return Loss: > 45dB Channel/UPG Insertion loss: 1.35dB Nominal / 2.7dB Max.
Model #	OCM 1891 (EAN# 4250479318915)

We are constantly adding more yellobrik modules.
Please visit our website for the latest product updates.
www.lynx-technik.com

LYNXTechnik **AG**® | Broadcast Television Equipment
Brunnenweg 3, D-64331 Weiterstadt, Germany

OCM 1891

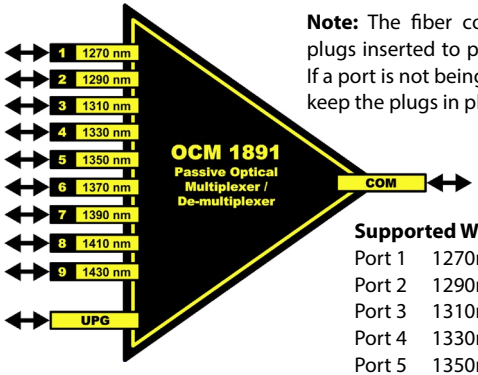
9 Channel Optical Multiplexer / De-multiplexer



Common Port [COM]

Fiber I/O Ports

Upgrade Port [UPG]



Note: The fiber connection ports will have plugs inserted to prevent dirt contamination. If a port is not being used we recommend you keep the plugs in place.

Supported Wavelengths

Port 1	1270nm	Port 6	1370nm
Port 2	1290nm	Port 7	1390nm
Port 3	1310nm	Port 8	1410nm
Port 4	1330nm	Port 9	1430nm
Port 5	1350nm		

Description

The **OCM 1891** is a 9 channel optical multiplexer and / or demultiplexer which is used in CWDM fiber optic systems. The unit is passive in operation meaning it requires no power to operate.

Operation

The module has 9 fiber I/O ports, each one tuned for a specific wavelength which is marked on the module. These can be input or output ports. Please ensure the port wavelength corresponds to the optical transmitter wavelength connected, or the port will not function. Input or output port designation is determined by where the optical transmitters or receivers are connected. There are no settings to change in the module.

Connections

All connections are snap in LC fiber connections and Singlemode fiber cable must be used (Multimode cable does not support CWDM). There is no minimum cable length for the input connections. 9 x Fiber I/O ports are provided and a COM and UPG port. The COM port (or Common Connection) is the module main I/O with all the combined multiplexed signals, and is typically connected to the COM port of the OCM module at the other end of the transmission line. The UPG port (or Upgrade Port) is a "band pass" port used for expansion, this can be connected to the **OCM 1892** to expand the system to support up to 18 channels over a single fiber link. The single COM link between the two modules is bidirectional which means the system can be configured for any permutation of receive or transmit channels.

Chassis Mounting

For system installations the **OCM 1891** and **OCM 1892** can be mounted in the optional **RFR 1018** half RU high chassis.This will secure the modules and provides front access to all connection ports.

Power

None required, passive operation

Connection Examples

The examples below show how two **OCM 1891** modules are connected for a 9 channel system, and how the **OCM 1892** modules can be added to expand the system to 18 channels.