

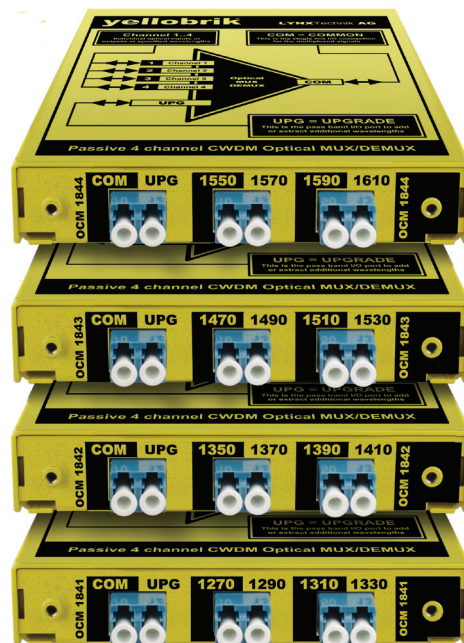
## 4 Channel CWDM Multiplexers / Demultiplexers

- Send / receive up to 4 channels over a single fiber link
- Passive operation (no power required)
- Combine all four modules for up to 16 channels
- LC/PC single mode optical connections
- Optional ½ RU 19" rack frame (RFR 1018)

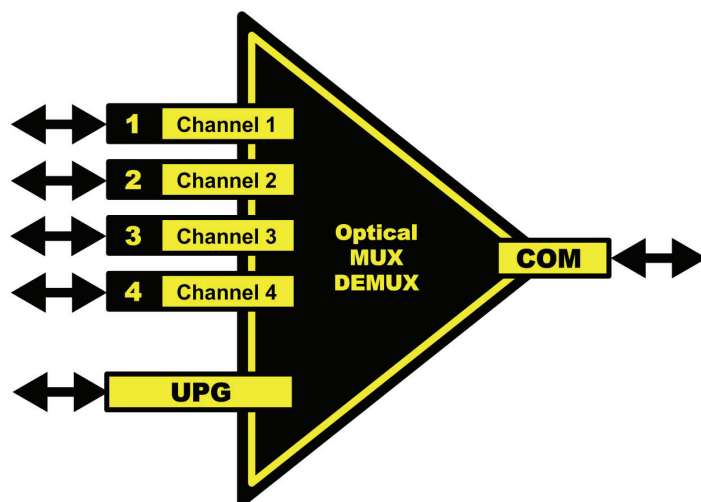
The **OCM 1841, OCM 1842, OCM 1843, OCM 1844** are compact CWDM passive 4 channel optical multiplexers / demultiplexers designed to send and receive up to 4 individual signals over a single fiber link. Each module has an UPG (Upgrade) port to cascade into the other 4 channel modules, expanding the capability of the system to a maximum of 16 channels.

The modules can be used standalone or integrated into the optional RFR 1018 1/2 RU 19" rack frame, which can accommodate all four modules. Ideal for system installations.

Ideally suited for use with the CWDM yellobrik fiber modules (all 16 wavelengths are available).



| Model           | Channel 1 | Channel 2 | Channel 3 | Channel 4 |
|-----------------|-----------|-----------|-----------|-----------|
| <b>OCM 1841</b> | 1270nm    | 1290nm    | 1310nm    | 1330nm    |
| <b>OCM 1842</b> | 1350nm    | 1370nm    | 1390nm    | 1410nm    |
| <b>OCM 1843</b> | 1470nm    | 1490nm    | 1510nm    | 1530nm    |
| <b>OCM 1844</b> | 1550nm    | 1570nm    | 1590nm    | 1610nm    |



## Technical Specifications

### Optical I/O

4 x Fiber Optic I/O channels  
Center frequencies taken from ITU-T G.694.2  
**OCM 1841** = 1270,1290,1310,1330nm  
**OCM 1842** = 1350,1370,1390,1410nm  
**OCM 1843** = 1470,1490,1510,1530nm  
**OCM 1844** = 1550,1570,1590,1610nm

1 x COM (common) connection = multiplexed I/O

1 x UPG (Upgrade) I/O connection  
(pass band connection to other OCM 189x modules)

LC/PC connectors SMF (single mode)

Channel Insertion loss: 2.7dB , UPG Insertion loss: 2.7dB

Polarization dependant loss: max 0.2dB

Return Loss: > 45dB

Isolation (to adjacent channel): > 30dB

Directivity > 55dB

Temp. dependant loss: < 0.005dB/°C

Temp. dependant change of wavelength: < 0.003nm/°C

Max. input power: 500mw

Single or full duplex operation

### Power

None required (passive operation)

### Physical

Size: 120mm x 100mm x 18mm (4.72" x 3.93" x 0.75")  
Weight: 140g (4.9oz)

### Model #

OCM 1841 - ( EAN# 4250479319417 )  
OCM 1842 - ( EAN# 4250479319424 )  
OCM 1843 - ( EAN# 4250479319431 )  
OCM 1844 - ( EAN# 4250479319448 )

### Includes

Module and transport case

Specifications subject to change