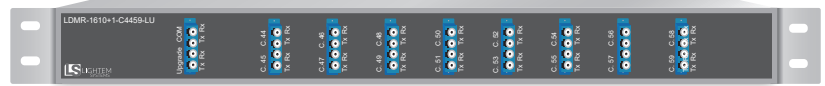


## Lightem 16Ch DWDM 100GHz C Band Mux Ch44-59 + DWDM Upgrade, duplex traffic 2 fibers

Lightem 16Ch DWDM 100GHz C Band Mux is designed to multiplex 16Ch DWDM 100GHz C Band for Ch44-59 duplex traffic into two fibers. The DWDM Upgrade port can be used to multiplex additional CWDM/DWDM channel with excellent insertion loss and isolation characteristics. It is packaged in a L3 module (Other package is available upon request); with our 19" 1U chassis (P/N: L19-3L3), a 1U rack space can accommodate up to 3 modules. Together with our DWDM Transceiver, the bandwidth of the fiber can be utilized in a cost effective way



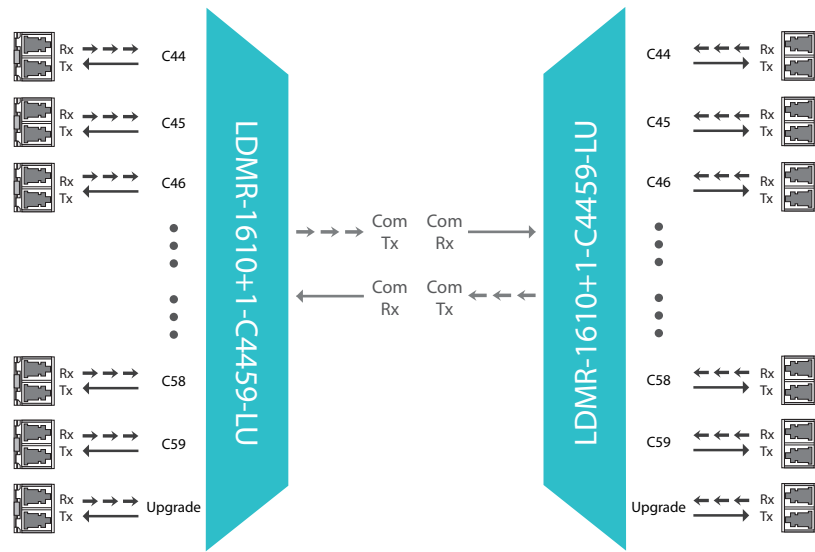
### FEATURE

- DWDM ITUT G.694.1 C Band 100GHz
- Ch25-40 + DWDM Upgrade
- Based on thin film optics with epoxy free optical path
- Protocol transparent, support 1G, 10G, 100G etc
- Package in 19" 1U Rackmount unit with 36x LC ports
- Custom designed with optional features

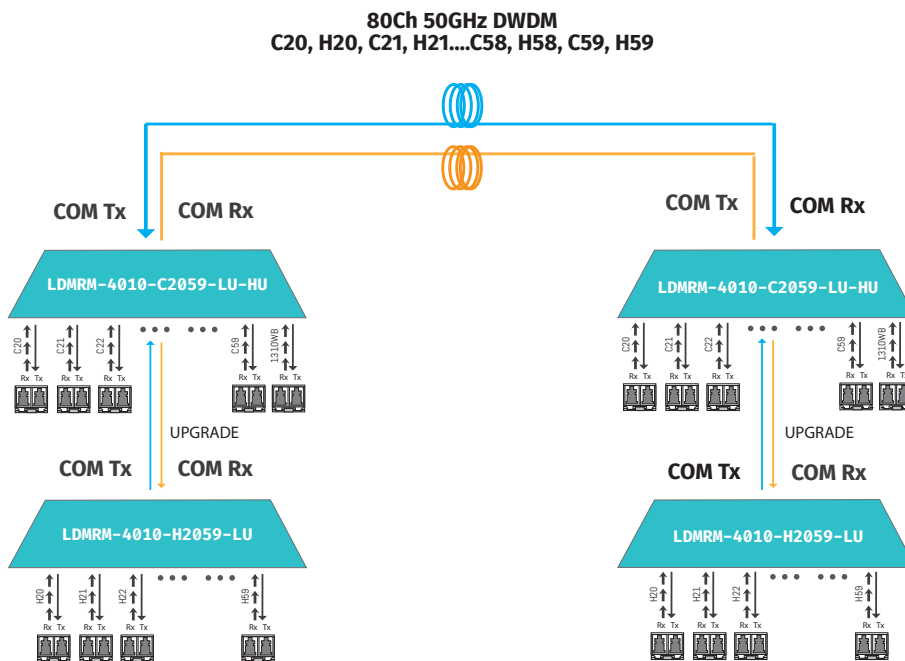
### SPECIFICATIONS

Parameter	Unit	Value
Insertion loss IL	dB	Max: 3.9 Typ: 3.7
Mux+Demux IL	dB	Max: 6.5
Channel		Ch44-59
1550WB port IL	dB	Max: 3.9 Typ: 3.7
1550WB port bandwidth	nm	1460-1620
Channel Spacing	GHz	100
Channel Flatness	dB	< 0.4
Channel Passband (0.5dB BW) Min	nm	0.22
Channel Uniformity	dB	< 1.5
Adjacent channel isolation	dB	> 25
Non adjacent channel isolation	dB	> 35
Directivity	dB	> 50
Return Loss	dB	> 50
PDL	dB	< 0.15
PMD	ps	< 0.1
Wavelength thermal stability	nm/°C	< 0.002
Insertion Loss thermal stability	nm/°C	< 0.005
Power Handling	mW	< 300
Operating temperature	°C	0 ~ +70
Storage temperature	°C	-40 ~ +85
Packaging		19" 1U Rackmount

## FUNCTIONAL DIAGRAM



## APPLICATION DIAGRAM



## ORDERING INFORMATION

P/N	Description
LDMR-1610+1-C4459-LU	Lightem 16Ch DWDM 100GHz C Band Mux Ch44-59 + DWDM Upgrade, duplex traffic 2 fibers, 19" 1U Rackmount package