

Lightem 4Ch CWDM Mux 1470, 1490, 1590 & 1610nm + 1310nm WB (Upgrade) + 1550nm WB port, duplex traffic 2 fibers

Lightem 4+2Ch CWDM Mux is designed to multiplex 4Ch CWDM 1470, 1490, 1590 & 1610nm, CWDM Upgrade (1310WB) & 1550WB ports duplex traffic into two fibers. The CWDM Upgrade (1310WB) port can be used to multiplex CWDM channel (1270-1450nm); where the 1550WB port is used for additional CWDM (1510-1570nm) upgrade 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 CWDM Transceiver, the bandwidth of the fiber can be utilized in a cost effective way.



FEATURES

- Coarse WDM ITUT G.6924
- 1470, 1490, 1590 & 1610nm & High Isolation 1310WB/Upgrade & 1550WB ports
- Based on thin film optics with epoxy free optical path
- Protocol transparent, support 1G, 10G, 100G etc
- Package in L3 modules with 14x LC ports
- 19" 1U Rackmount system supporting Max 3x L3 Modules
- Custom designed with optional features

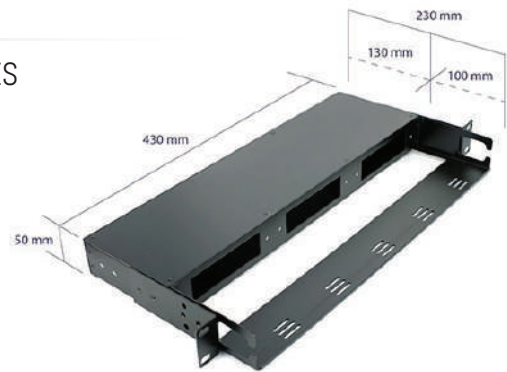
SPECIFICATIONS

Parameter	Unit	Value
<i>Insertion loss IL</i>	dB	Max: 2.2 Typ: 2.0
<i>Mux+Demux IL</i>	dB	Max: 3.2 Typ: 3.0
<i>Center Wavelength</i>	nm	1471, 1491, 1591 & 1611 or custom
<i>1310WB / Upgrade port IL</i>	dB	Max: 1.2 Typ: 0.8
<i>1310WB / Upgrade port bandwidth</i>	nm	1260-1457
<i>1550WB port IL</i>	dB	Max: 1.2 Typ: 1.0
<i>1550WB port bandwidth</i>	nm	1500-1580
<i>Channel Spacing</i>	nm	20
<i>Channel Flatness</i>	dB	< 0.4
<i>Channel Bandwidth</i>	nm	+/- 6.5
<i>Channel Uniformity</i>	dB	< 1.0
<i>Adjacent channel isolation</i>	dB	> 30
<i>Non adjacent channel isolation</i>	dB	> 40
<i>Directivity</i>	dB	> 55
<i>Return Loss</i>	dB	> 50
<i>PDL</i>	dB	< 0.15
<i>PMD</i>	ps	< 0.1
<i>Wavelength thermal stability</i>	nm/°C	< 0.003
<i>Insertion Loss thermal stability</i>	nm/°C	< 0.005
<i>Power Handling</i>	mW	< 500
<i>Operating temperature</i>	°C	0 ~ +70
<i>Storage temperature</i>	°C	-40 ~ +85
<i>Packaging</i>		L3 Module
<i>Dimension</i>	mm	29 x 130 x 160

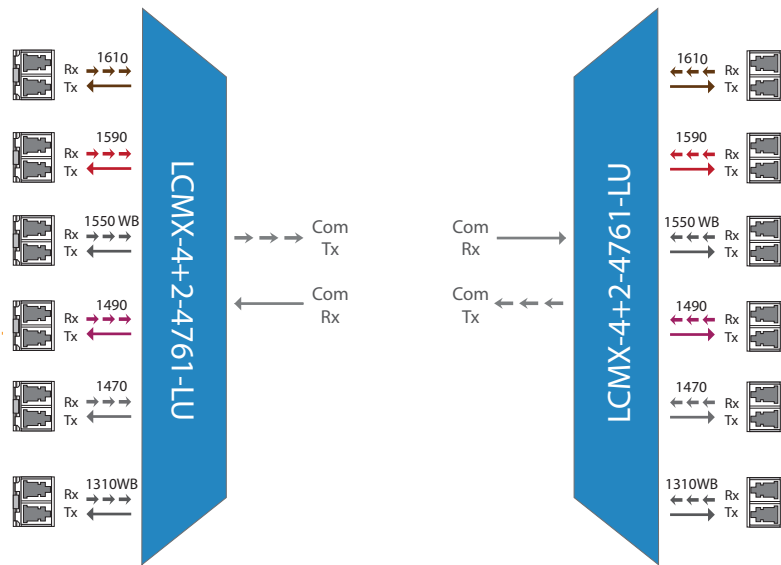
TELECOM/DATACOM SYSTEM

ACCESSORY - L191U-3S

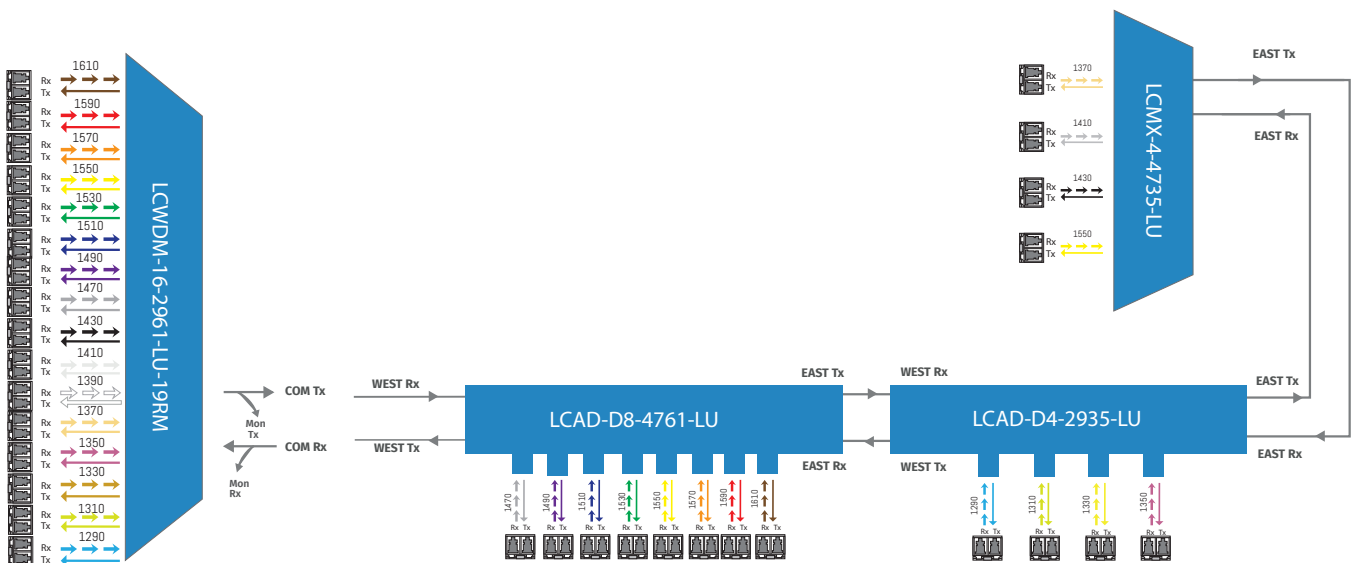
LIGHTEM 19" 1U RACKMOUNT CHASSIS, SUPPORT MAX 3X L3 MODULES



FUNCTIONAL DIAGRAM



APPLICATION DIAGRAM



ORDERING INFORMATION

*customized configuration is available upon request

P/N	Description
LCMX-4+2-4761-LU*	Lightem 4Ch CWDM Mux 1470, 1490, 1590 & 1610nm + 1310nm WB (Upgrade) + 1550nm WB port, duplex traffic 2 fibers and L3 module package
ACCESSORY -	
L191U-3S	LIGHTEM 19" 1U RACKMOUNT CHASSIS, SUPPORT MAX 3X L3 MODULES