

Lightem 40Ch AAWG DWDM 100GHz C Band Mux Ch20-59+ H Band Upgrade ports, duplex traffic 2 fibers

Lightem 40Ch AAWG DWDM 100GHz C Band with H Band upgrade Mux is designed to multiplex 40Ch DWDM 100GHz C Band for Ch20-59 duplex traffic into two fibers. The H Band upgrade port can be used to input additional 40Ch DWDM 100GHz H Band traffic into the existing traffic. 80Ch DWDM 50GHz Muxes can be formed with such combinations. It is packaged in a 19" 1U unit. Together with our DWDM Transceiver, the bandwidth of the fiber can be utilized in a cost effective way.



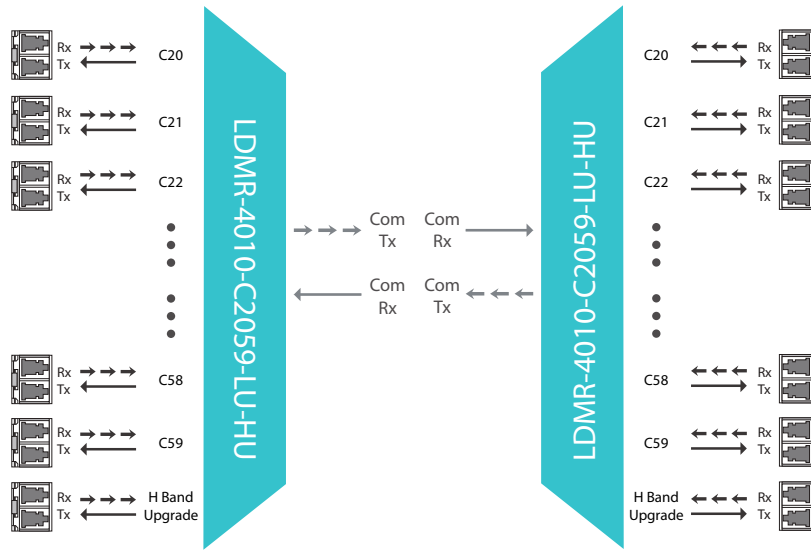
FEATURE

- DWDM ITUT G.694.1 C Band 100GHz
- Athermal AWG
- Ch20-59
- H Band upgrade port is used to form a 80Ch DWDM 50GHz
- Protocol transparent, support 1G, 10G, 100G etc
- Custom designed with optional features
- Package in 19" 1U Rackmount unit with 84x LC ports

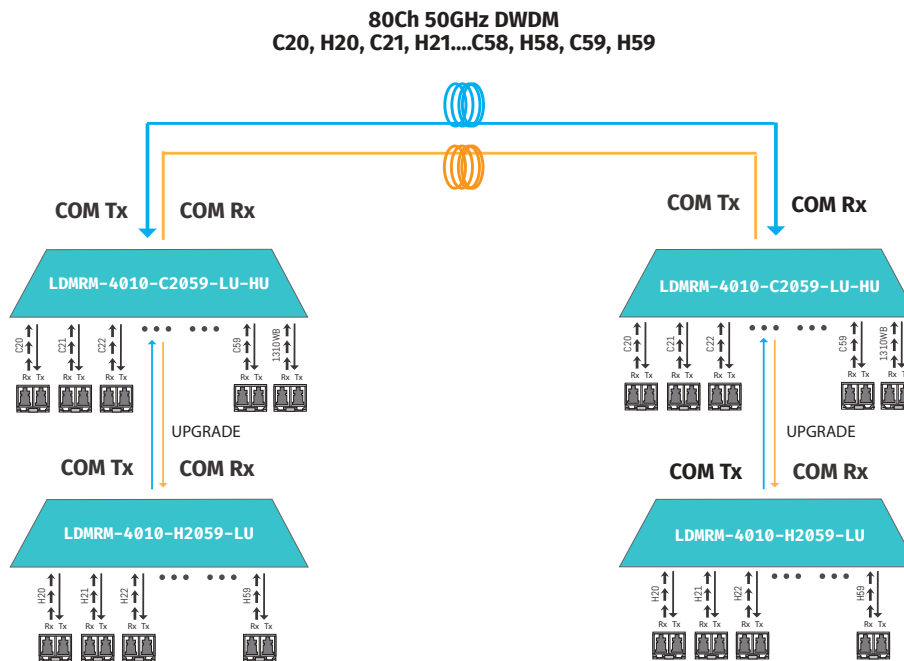
SPECIFICATIONS

Parameter	Unit	Value
<i>Insertion loss IL</i>	dB	Max: 5.8 Typ: 4.5
<i>Mux+Demux IL</i>	dB	Max: 10.8
<i>Channel</i>		Ch20-59
<i>H Band Upgrade port IL</i>	dB	Max: 2.2 Typ: 1.8
<i>Center Wavelength</i>	nm	C Band
<i>Clear Channel Passband</i>	nm	±0.05
<i>-1 dB Channel Bandwidth</i>	nm	> 0.24
<i>-3 dB Channel Bandwidth</i>	nm	> 0.43
<i>Channel Spacing</i>	GHz	100
<i>Insertion Loss Uniformity</i>	dB	Max: 1.5 Typ: 0.8
<i>Insertion Loss Ripple</i>	dB	Max: 0.5 Typ: 1.0
<i>Adjacent channel isolation</i>	dB	> 22
<i>Non adjacent channel isolation</i>	dB	> 28
<i>Total channel isolation</i>	dB	> 20
<i>Directivity</i>	dB	> 45
<i>Return Loss</i>	dB	> 50
<i>PDL</i>	dB	< 0.5
<i>PMD</i>	ps	< 0.5
<i>Wavelength stability</i>	nm	< 0.05
<i>Power Handling</i>	mW	< 300
<i>Operating temperature</i>	°C	-5 ~ +65
<i>Storage temperature</i>	°C	-40 ~ +85
<i>Packaging</i>		19" 1U Rackmount

FUNCTIONAL DIAGRAM



APPLICATION DIAGRAM



ORDERING INFORMATION

P/N	Description
LDMR-4010-C2059-LU-HU	Lightem 40Ch AAWG DWDM 100GHz C Band Mux Ch20-59+ H Band Upgrade ports, duplex traffic 2 fibers