

## Lightem 40Ch AAWG DWDM 100GHz H Band Mux Ch20-59, duplex traffic 2 fibers

Lightem 40Ch AAWG DWDM 100GHz H Band Mux is designed to multiplex 40Ch DWDM 100GHz H Band for Ch20-59 duplex traffic into two fibers. Together with our 40Ch C Band Mux with H band upgrade ports, 80Ch 50GHz DWDM waves can be multiplex into 2 fibers cost effectively.



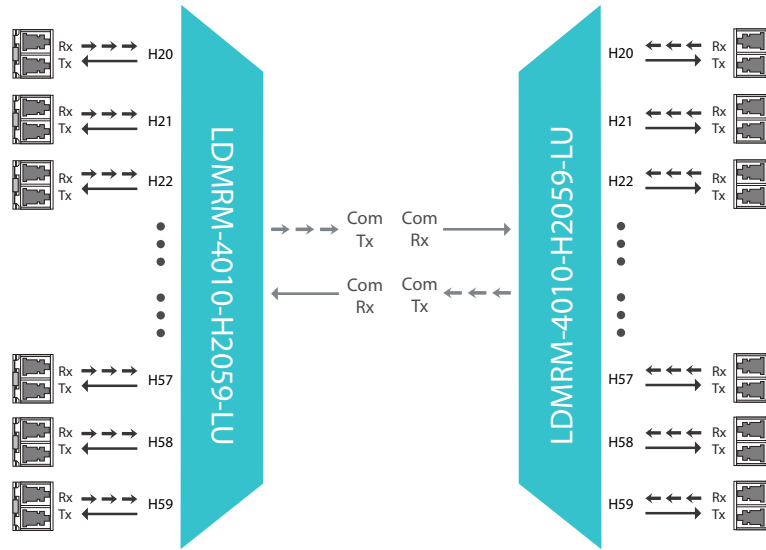
### FEATURE

- DWDM ITUT G.694.1 H Band 100GHz
- Athermal AWG
- Ch20-59
- Protocol transparent, support 1G, 10G, 100G etc
- Custom designed with optional features
- Package in 19" 1U Rackmount unit with 82x LC ports
- Form the 50GHz 80Ch Muxes with our 40Ch with H Band upgrade port

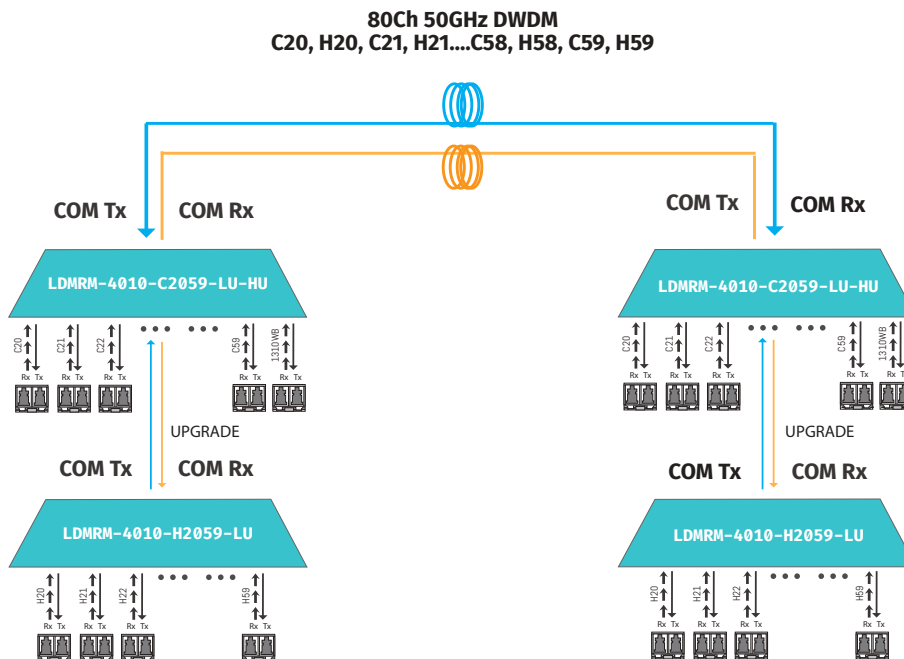
### SPECIFICATIONS

Parameter	Unit	Value
<i>Insertion loss IL</i>	dB	Max: 4.5 Typ: 4.0
<i>Mux+Demux IL</i>	dB	Max: 8.7
<i>Channel</i>		Ch20-59
<i>Center Wavelength</i>	nm	H 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	> 25
<i>Non adjacent channel isolation</i>	dB	> 30
<i>Total channel isolation</i>	dB	> 22
<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-H2059-LU	Lightem 40Ch AAWG DWDM 100GHz H Band Mux Ch20-59, duplex traffic 2 fibers, 19" 1U Rackmount package