

## Lightem 8Ch Lower Band CWDM Mux 1271-1451nm, duplex traffic 2 fibers

Lightem 8Ch Lower Band CWDM Mux is designed to multiplex 8Ch CWDM 1271-1451nm (skip 1391 & 1411nm) into two fibers. It is designed to use with LCMX-8-LB2943 muxes for CWDM upgrade through the existing traffic, but without any interruption of existing services. 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
- 1271-1451nm (skip 1391 & 1411nm)
- Based on thin film optics with epoxy free optical path
- Protocol transparent, support 1G, 10G, 100G etc
- Package in L3 modules with 18x LC ports
- 19" 1U Rackmount system supporting Max 3x L3 Modules
- Custom designed with optional features

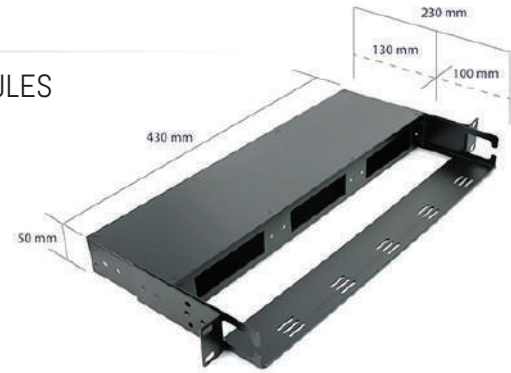
### SPECIFICATIONS

| Parameter                        |       |  |
|----------------------------------|-------|--|
| Insertion loss IL                | dB    | Max: 2.7 Typ: 2.5                          |
| Mux+Demux IL                     | dB    | Max: 3.4 Typ: 3.2                          |
| Center Wavelength                | nm    | 1271-1451nm (skip 1391 & 1411nm) or custom |
| Channel Spacing                  | nm    | 20   |
| Channel Flatness                 | dB    | < 0.4                                      |
| Channel Bandwidth                | nm    | +/- 6.5                                    |
| Channel Uniformity               | dB    | < 1.0                                      |
| Adajacent channel isolation      | dB    | > 30                                       |
| Non adajacent channel isolation  | dB    | > 40                                       |
| Directivity                      | dB    | > 55                                       |
| Return Loss                      | dB    | > 50                                       |
| PDL                              | dB    | < 0.15                                     |
| PMD                              | ps    | < 0.1                                      |
| Wavelength thermal stability     | nm/°C | < 0.003                                    |
| Insertion Loss thermal stability | nm/°C | < 0.005                                    |
| Power Handling                   | mW    | < 500                                      |
| Operating temperature            | °C    | 0 ~ +70                                    |
| Storage temperature              | °C    | -40 ~ +85                                  |
| Packaging                        |       | L3 Module                                  |
| Dimension                        | mm    | 29 x 130 x 160                             |

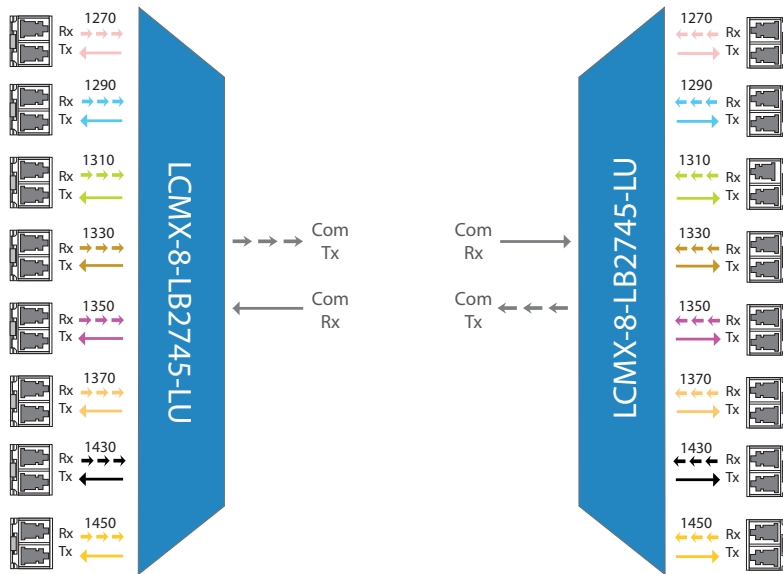
# TELECOM/DATACOM SYSTEM

ACCESSORY - L191U-3S

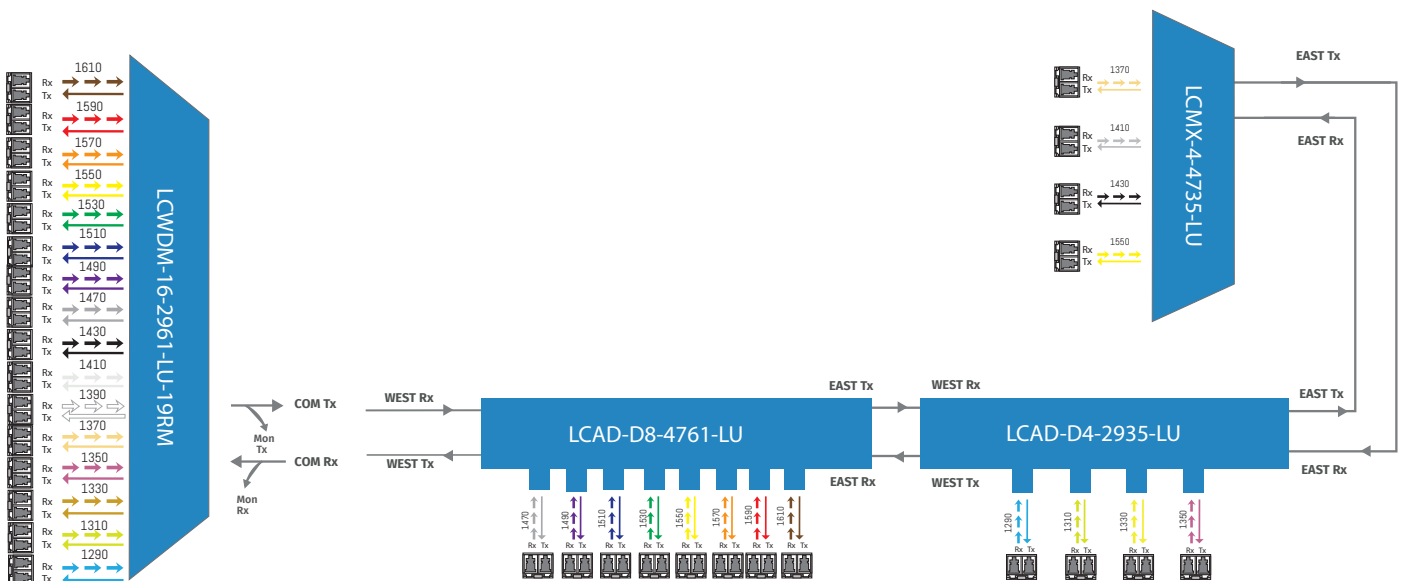
LIGHTEM 19" 1U RACKMOUNT CHASSIS, SUPPORT MAX 3X L3 MODULES



## FUNCTIONAL DIAGRAM



## APPLICATION DIAGRAM



## ORDERING INFORMATION

\*customized configuration is available upon request

| P/N               | Description  |
|-------------------|--|
| LCMX-8-LB2745-LU* | Lightem 8Ch Lower Band CWDM Mux 1270-1450nm , duplex traffic 2 fibers, L3 module package |
| Accessory         |  |
| L191U-3S          | LIGHTEM 19" 1U Rackmount Chassis, support max 3x L3 modules                              |