

DESCRIPTION

Radiant's Series DL600 is the most complete line of fiber optic mode converters/repeaters in the industry. The Series will transport virtually any digital signal up to OC48 speed over distances for up to 80 km over singlemode fiber. The Series DL600 can be used as a multimode to singlemode converter or as a singlemode to singlemode repeater. There are options for all wavelengths; 850, 1300, and 1550 nm, plus options for bi-directional transmission over one singlemode fiber. The lower speed unit, DL605 (up to 155 Mb/s) will transmit any digital signal from 2 Mb/s to the top rated top speed (155 Mb/s). The higher speed units, the DL608 (OC12), DL610 (Fiber Channel), DL612 (Gigabit Ethernet) and DL615 (OC48), all have clock recovery circuits which limit each of them for that data format only. However, because of clock recovery, these units are not distance limited, except by the power of the optical devices. This feature enables the high-speed systems to be transmitted for extended distances. The Series DL600 requires no adjustments and has a number of indicator LED's for troubleshooting, plus features for alarm conditions.

DL600 Fiber Optic Converter/ Repeater

BENEFITS

- Converters -Multimode to Singlemode
- Repeater -Singlemode to Singlemode
- Transmission distances of 100 km or more

FEATURES

- One and two fiber versions
- Options for all speeds: OC3, OC12, Gigabit, OC48
- Options for CWDM and DWDM Systems (ITU Grid)



**Radiant
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2/2005

DL600 Fiber Optic Converter /Repeater

SPECIFICATIONS

Data

| | |
|-----------|---------------------------------|
| Bandwidth | |
| DL605 | 2 Mb/s to 155 Mb/s (OC3) |
| DL608 | 622 Mb/s (OC12) |
| DL610 | 1.06 Gbps (Fiber Channel) |
| DL612 | 1.25 Gbps (Gigabit Ethernet) |
| DL615 | 2.48 Gbps (OC48) |
| BER | 1 x 10 ⁻¹⁰ or better |

Optical

| | |
|--|-----------------------------------|
| Wavelength: | 850nm, 1310nm, 1550nm, CWDM, DWDM |
| Number of Fibers: | 1 or 2 |
| Optical Connector: | SC/APC, SC, ST FC, FC/APC |
| Dynamic Range | |
| Multimode (2 fiber) | |
| 850nm | 10 dB (62/125 fiber) |
| 1300nm | 10 dB (62/125 fiber) |
| Singlemode (2 fiber) | |
| 1300nm | 14 dB (25 dB optional) |
| 1550nm | 14 dB (25 dB optional) |
| Singlemode (1 fiber) | |
| 1300/1550 | 14 dB (at 1300nm) |
| (Not All Dynamic Ranges for All Products - Call Factory) | |

General Characteristics

| | |
|------------------|--|
| Power: | 115 VAC @ 200 mA |
| Operating Temp: | 0° to 40° C |
| Size: | rackmount 19.0" W x 10.0" D x 1.75" H Module/can 10.0" W x 10.0" D x 3.5" H |
| Indicator LED's: | Power, SM Link, MM Link, Data, Laser |

ORDERING INFORMATION

| PART NUMBER | DESCRIPTION | Wavelength=YY | Fiber Type |
|-------------|-------------------------------------|----------------|------------|
| DL605-YY-XZ | OC 3 Converter/Repeater | A=850 nm | Multimode |
| DL608-YY-XZ | OC 12 Converter/Repeater | B=1310 nm | Multimode |
| DL610-YY-XZ | Fiber Channel Converter/Repeater | C=1310 nm | Singlemode |
| DL612-YY-XZ | Gigabit Ethernet Converter/Repeater | D=1550 nm | Singlemode |
| DL615-YY-XZ | OC 48 Converter/Repeater | E=1310/1550 nm | Singlemode |

Note:

- Specify X—packaging of the unit: U—IU rack mount, M—modular (standalone) mount
- Specify Z—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D—ST
- For higher optical budgets and distances, CWDM and DWDM systems, contact factory
- Due to product enhancements, specifications are subject to change without notice



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