

Product Features

Control 16 laser diodes in one tray

Rack mount slide rollers for easy access to laser sockets

User-configurable pin headers allow multiple laser pinouts; hard wired DFB pinout available

Supports control of internal TE coolers

Fiber management spools for handling excess pigtailed fiber

16 laser outputs on the front panel

Convenient cable connections to ILX Lightwave controllers

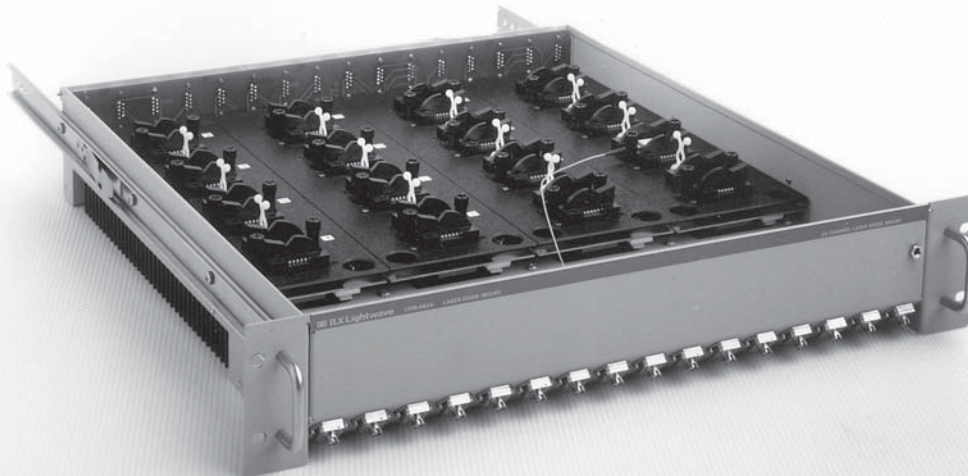
Model LDM-4616 is a rack-mountable, 16-channel mount for butterfly packaged laser diodes. Other package styles are supported with the LDM-4604 series of mount modules. Each channel is equipped with a convenient Zero Insertion Force (ZIF) socket, allowing easy insertion and removal of the laser diode. Slide rollers easily move the entire mounting tray out from the rack, simplifying laser configuration and replacement.

Electrical signals to the lasers pass through convenient pin configuration headers and are bussed to the rear panel or select the LDM-4616DFB version with hard wired DFB pinout. Standard cables, which are terminated with paired 9-pin D-sub connectors, connect easily to any ILX Lightwave current source and temperature controller.

Fiber management is supported by an integrated fiber tray that spools excess pigtail fiber and routes connections to the front panel. Front panel fiber optic mating adapters can be changed to many popular types or replaced with soft grommets for feeding fiber directly through the front panel.

LDM 4616

16-Channel Butterfly Laser Diode Mount



16-Channel Mounting Capability for Laser Diodes

 **ILX Lightwave**
Photonic Test and Measurement

LDM 4616

16-Channel Butterfly Laser Diode Mount

Specifications

LASER PACKAGES

Styles Supported: 14-pin Butterfly, DIL, and Mini-DIL
Socket: 16 Zero Insertion Force (ZIF) sockets

The LDM-4616 has user configurable pin headers (terminal blocks) for configuring multiple laser pinouts.

The LDM-4616DFB has the following fixed pin configuration:

Pin 1: Thermistor
Pin 2: Thermistor
Pin 3: Laser Cathode
Pin 4: Photodiode monitor Anode (-)
Pin 5: Photodiode monitor Cathode (+)
Pin 6: TEC (+)
Pin 7: TEC (-)
Pin 8: Laser Anode (case)
Pin 9: Laser Anode (case)
Pin 10: Laser Anode (case)
Pin 11: Laser Anode
Pin 12: N/C (float)
Pin 13: Laser Anode
Pin 14: Laser Anode (case)

Maximum Laser Current: 3 A
Maximum TEC Current: 3 A

INPUT CONNECTORS

Current Source: 9-pin D-sub, female (16 on top)
Temperature Controller: 9-pin D-sub, male (16 on bottom)

THERMAL

Sockets are connected to a finned heat sink
Resistance: 0.41 °C/W (natural convection in open space)
0.17 °C/W (moving air in thermal chamber)

GENERAL

Size: 3.38" x 18.97" x 23.9"
86mm x 482mm x 607mm
Weight: 28 pounds; 12.7 kg.
Tray Depth: 17.52" plus 1" handle

In keeping with our commitment to continuous improvement, ILX Lightwave reserves the right to change specifications without notice and without liability for such changes.



When coupled with the LDC-3916 Multi-Channel Controller, the LDM-4616 provides a configurable, cost-effective solution for multi-channel DWDM signal sources. The tray can also support many popular 980 nm and 1480 nm pump laser diodes for EDFA test applications.

ORDERING INFORMATION

LDM-4604/RDIL DIL Mount Module (Right Bay)
LDM-4604/LDIL DIL Mount Module (Left Bay)
LDM-4604/RBFY Butterfly Mount Module (Right Bay)
LDM-4604/LBFY Butterfly Mount Module (Left Bay)
LDM-4604/RDFB DFB Butterfly Mount Module (Right Bay)
LDM-4604/LDFB DFB Butterfly Mount Module (Left Bay)
LDM-4600 Multi-Channel Mount Chassis
(for LDM-4604 Modules)
LDM-4616 16-Channel Butterfly Mount
LDM-4616DFB 16-Channel DFB Butterfly Mount
RM-141 Slide Rail Rack Mounting Kit
(20.5" hole spacing)
RM-142 Slide Rail Rack Mounting Kit
(25" hole spacing)
MA-401 Mating Adapter: FC-APC/FC-APC, Wide/Wide keys
= N/N = 2.15 mm/2.15 mm
MA-402 Mating Adapter: FC-APC/FC-APC, Narrow/Wide keys
= R/N = 2.05 mm/2.15 mm
MA-403 Mating Adapter: FC-APC/FC-APC, Narrow/Narrow
keys = R/R = 2.05 mm/2.05 mm
MA-404 Mating Adapter: FC-APC/SC-APC,
Wide key = N = 2.15 mm
CC-305S Current Source/Laser Diode Mount Interconnect
Cable
CC-316M Current Source/Laser Diode Mount Interconnect
Cable (bundle of 8)
CC-505S TE Controller/Laser Diode Mount Interconnect Cable
CC-516M TE Controller/Laser Diode Mount Interconnect Cable
(bundle of 8)