

## Product Features

16 laser diode ZIF-sockets  
in one tray

Rack mount slide rollers for easy  
access to laser sockets

User-configurable pin-headers allow  
multiple laser pin-outs, or hardwired  
DFB pin-out available

Supports control of internal  
TE coolers

Fiber management spools for  
handling excess pigtailed fiber

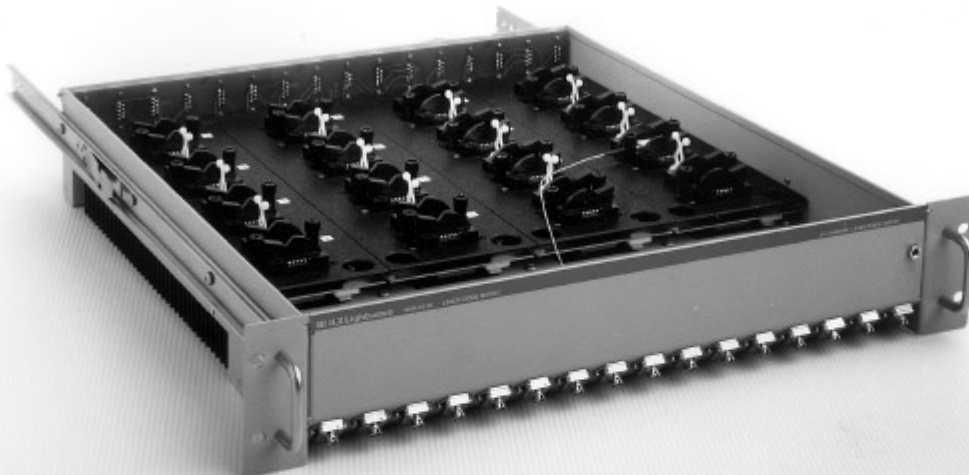
User-specified, fiber-optic mating  
adapters for all 16 channels on the  
front panel

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 hardwired DFB pin-out. 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.



## 16-Channel Mounting Capability for Laser Diodes

 **ILX Lightwave**  
Photonic Test & Measurement Instrumentation

# LDM 4616

16-Channel  
Laser Diode  
Mount

# LDM 4616

## 16-Channel Laser Diode Mount

### Specifications

#### LASER PACKAGE STYLE SUPPORTED

14-pin Butterfly (see LDM-4604 for DIL and mini-DIL)

#### LASER PACKAGE SOCKETS

Zero Insertion Force (ZIF) sockets with user configurable pin-headers (terminal blocks) for configuring multiple laser pinouts

#### ELECTRICAL INPUT SPECIFICATIONS

Maximum laser current: 3 A  
Maximum TEC current: 3 A

#### ELECTRICAL INPUT CONNECTORS

Sixteen pairs of 9-pin D-sub connectors on back:

Top: Internal laser temperature control (Male)  
Bottom: Laser diode current control (Female)

#### OPTICAL OUTPUT CONNECTORS

Sixteen feed-through mating adapters on the front panel can be changed for most popular connector styles, or replaced with rubber grommets for feeding fiber directly through the front panel. Unused ports can be covered with plugs supplied in the shipping kit.

#### THERMAL

Sockets are thermally connected to a finned heat sink.

Thermal resistance:

0.41 °C/W (Natural convection in open space)

0.17 °C/W (Moving air in thermal chamber)

Assumes all 16 sockets are loaded evenly.

See ILX Tech Note #TN4616-1 for detailed thermal information.

#### PIN CONFIGURATION FOR DFB VERSION ONLY

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)

#### GENERAL

Overall Size (HxWxD): 86 mm x 482 mm x 607 mm  
3.38" x 18.97" x 23.9"  
(Including drawer slides)  
Tray Depth: 2U high in standard 19" rack  
Weight: 17.52" plus 1" handle  
12.7 kg (28 lbs)

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

#### 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)



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.

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