ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Newport / ILX Lightwave LDM-4616* at our website: *Click HERE*

LDM 4616

16-Channel Laser Diode Mount

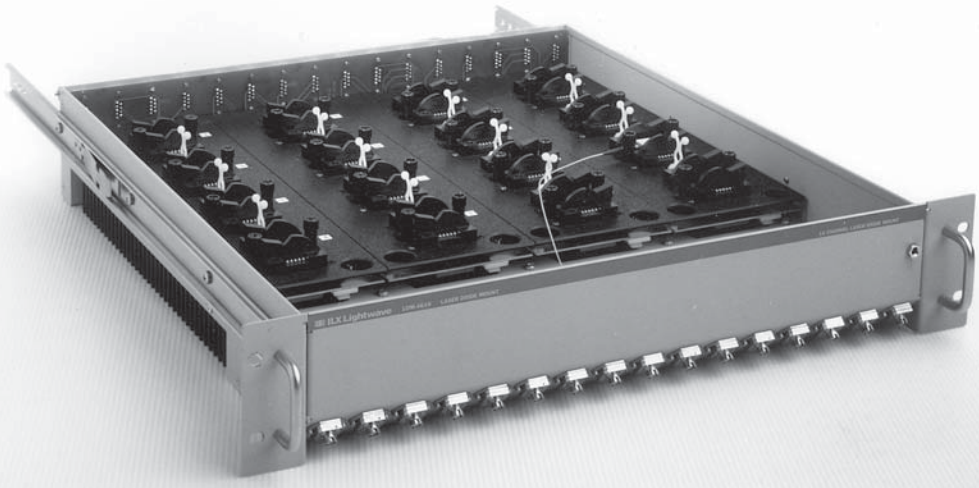
Product Features

- 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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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) 2U high in standard 19" rack
Tray Depth:	17.52" plus 1" handle
Weight:	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.

ILX Lightwave
Photonic Test & Measurement Instrumentation
P.O. Box 6310 Bozeman, MT 59771 • FAX: 406-586-9405

For information call
1-800-459-9459
International Inquiries: 406-586-1244
email: sales@ilxlightwave.com

www.ilxlightwave.com

Rev. 6/5/01

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP