

PL-300

Passive Family - Mux/Demux, DCM, OADM



Up to 96 ch Mux/Demux, DCM, OADM in 1U

Features Overview

- Passive transparent any rate, any service multiplexing
- Compliant with all optical networking products (ITU grid)
- DWDM passive optical mux/demux supported configuration: 4/8/16/44/48/88/96 channels
- CWDM passive optical mux/demux supported configuration: 4/8/16 channels
- Integrates up to four DCMs
- OADM for 1-4 wavelengths
- Supports single and dual fiber operation
- Integrates with all PacketLight products
- Stackable solution for multiplexing optical services up to 200G each
- Supports full C-band and L-band
- Supports 100GHz and 50GHz
- 1U, 19" rack mount chassis
- Simple installation and modularity
- **Optional TAP Monitoring Port**

Maximize Fiber Utilization & Capacity

The PL-300 provides passive optical layer functions for 4-96 DWDM wavelengths mux/demux, 4-16 CWDM wavelengths mux/demux, optical dispersion compensation module (DCM), optical add and drop (OADMs), splitters and combiners.

The passive optical network products interconnect seamlessly with PacketLight's transponder, muxponder, amplifier and ROADM product lines, and third party WDM products, to form cost-effective high capacity DWDM and CWDM solutions.

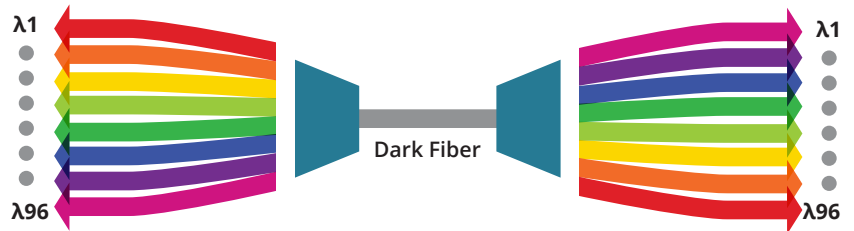
Main Benefits

- **Customized per customer application requirements**
- **Standards-based and can integrate with third party solutions**
- **Scalable solution, allowing customers to expand as needed, saving operating costs and resources**

Flexibility in Services over the Same Fiber

The PL-300 provides high granularity wavelength add and drop capabilities and offers a large set of passive optical modules that are tailored to the customers' network requirements.

The device supports a wide range of CWDM and DWDM mux/demux, OADM and DCMs in various configurations, suitable for any type of CWDM, DWDM, OTN and ROADM network building block.



Passive Product Family Customized for Any Need

Recommended for the following applications:

- Expansion of existing fiber capacity regardless of service type
- Building scalable high capacity pay-as-you-grow optical networks
- Low cost fully passive optical layer solution, transparent to service rate and type
- Extending the fiber optical solution reach for 10G services with DCMs
- Building cost-effective add and drop networks
- Enables stackable solution of 100G/sub-100G products



1U rack mount

Technical Specifications

	Description	# MUX WLS	MUX 1 [nm]	MUX 2 [nm]	Insertion Loss (Mux + Demux)
CWDM	Dual Fiber 4ch Mux/Demux	4	1471-1531		<4dB
	Dual Fiber 8ch Mux/Demux	8	1471-1611		<4dB
	Dual Fiber 16ch Mux/Demux	16	1311-1611		<6dB
	2 x Dual Fiber 4ch Mux/Demux	4	1471-1531	1471-1531	<4dB
	2 x Dual Fiber 8ch Mux/Demux	8	1471-1611	1471-1611	<4dB
	2 x Dual Fiber 16ch Mux/Demux	16	1311-1611	1311-1611	<6dB
	Single Fiber 8ch Mux	8	1471-1611		<4dB
	Single Fiber 16ch Mux	16	1311-1611		<6dB
	2 x Single Fiber 8ch Mux	8	1471-1611	1471-1611	<4dB
	2 x Single Fiber 16ch Mux	16	1311-1611	1311-1611	<6dB
DWDM	Dual Fiber 4ch Mux/Demux	4	CH28-CH31		<4dB
	Dual Fiber 8ch Mux/Demux	8	CH28-CH35		<4dB
	Dual Fiber 16ch Mux/Demux	16	CH20-CH35		<7dB
	Dual Fiber 44ch Mux/Demux	44	CH17-CH60		<7dB
	Dual Fiber 88ch Mux/Demux	88	CH17-CH60.5		<10dB
	Dual Fiber 96ch Mux/Demux	96	CH13-CH60.5		<10dB
	2 x Dual Fiber 4ch Mux/Demux	4	CH28-CH31	CH28-CH31	<4dB
	2 x Dual Fiber 8ch Mux/Demux	8	CH28-CH35	CH28-CH35	<4dB
	2 x Dual Fiber 16ch Mux/Demux	16	CH20-CH35	CH20-CH35	<7dB
	Single Fiber 8ch Mux	8	CH28-CH35		<2.5dB
	Single Fiber 16ch Mux	16	CH20-CH35		<4dB
	Single Fiber 88ch Mux	88	CH17-CH60.5		<6dB
	Single Fiber 96ch Mux	96	CH13-CH60.5		<4.5dB
	2 x Single Fiber 8ch Mux	8	CH28-CH35	CH28-CH35	<3dB
	2 x Single Fiber 16ch Mux	16	CH20-CH35	CH20-CH35	<3dB
	2 x Single Fiber 8ch Mux Red/Blue	16	CH21-CH36	CH45-CH60	<9dB

DWDM Add/Drop Insertion Loss

Single ch.: Express 0.8dB, add/drop 1.5dB

Dual ch.: Express 1.3dB, add/drop 1.5 dB

Quad ch.: Express 2.5dB, add/drop 2.7dB

Splitters/Combiners Insertion Loss

DWDM: 1.5dB

CWDM: 0.8dB

1310nm: <1.5dB

DCM

Fibre Type: G.652 **PMD:** <1.2ps

Fibre Span: 20km-200km

Wavelength Range: 1527nm-1567nm

Residual Dispersion: <+/-2%

Max Insertion Loss: 3dB

Environmental

Operating Temperature: -5°C to +50°C
(+23°F to +122°F) operational

Physical Dimensions 1U:

- 1.77" (H) x 17.32" (W) x 9.05" (D)
- 45mm (H) x 440mm (W) x 220mm (D)

Weight: 3.5kg / 7.7lb (max)

Approvals & Standards

- RoHS, REACH, ETSI, Telcordia GR-12, NEBS ready
- Standards: ITU G.671



For more information please contact us at www.packetlight.com

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