Intelligent Optical Add/Drop Circuit Pack

Key Features

- C or L band wavelength operation
- 50 or 100 GHz operation
- Number of add/drop channels customizable up to 8
- Controllable attenuation to 20 dB
- Wavelength blocking to 40 dB
- Optional add/drop path amplification
- 100Base-T interface
- RS-232 craft interface
- SNMP managed
- CLI interface for craft access
- 1RU 19-inch rack mountable
- 48 V operating voltages with dual redundant inputs
- Full featured alarms
- Field upgradeable software

Applications

- Enables add/drop and pass through of DWDM channels
- Enables add/drop and pass through channel equalization, blocking, power monitoring, and amplification

Compliance

- NEBS Level 3
- IEC 60950-1
- IEC 60825-1
- EN 300 386
- ETSI 300-019

JDSU's Agile Optical Switch family provides the broadest portfolio of ROADM solutions designed to match the requirements of major market segments. They are building blocks of Agile Optical Networks and provide the flexibility to remotely reconfigure any or all wavelengths, thereby reducing time-to-service, simplifying the network, and streamlining planning and management. This results in significant Opex and Capex reductions and faster time to revenue. In addition, they enable the cost-effective creation and deployment of more complex network architectures.

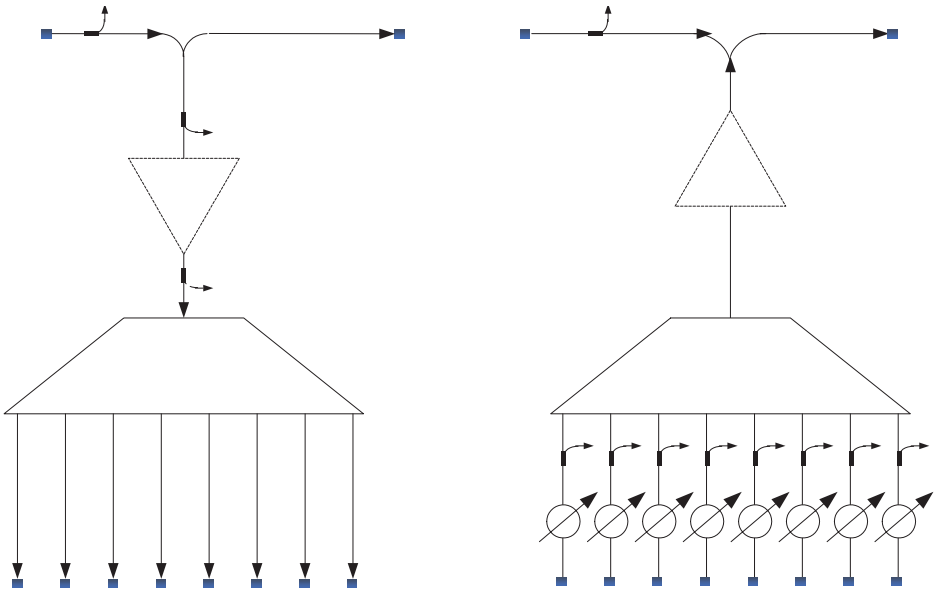
The JDSU Intelligent Optical Add/Drop (IOAD) Circuit Pack provides, in a deployment-ready 1RU configuration, the cost-effective add/drop and pass through capabilities that are needed in today's Agile Optical Networks and features power management control and amplification of both add and drop optical paths. The optional blocking capability of attenuators allows for the easy addition/deletion of new wavelengths to the network. Optical taps and photo diodes provide the power monitoring and add channel verification features. In addition, the IOAD Circuit Pack incorporates a pass through capability, enabling for the cascading of multiple circuit packs.

The IOAD Circuit Pack is controlled through an industry-standard network interface based on TCP/IP, dynamic host configuration protocol (DHCP), and simple network management protocol (SNMP). SNMP traps are fully supported as the system alarm mechanism. The IOAD Circuit Pack is ready for integration into a system provider's IP-based control plane sub-net.

The IOAD Circuit Pack is passively cooled and meets all relevant regulatory requirements for emission, immunity, and safety compliance.

Functional Diagram

(This diagram shows the optical functionality of the IOAD Circuit Pack only. The diagram does not resemble the actual device.)



Specifications

Parameter		Specification
Frequency range		C or L band
Frequency spacing		50 or 100 GHz
Number of add/drop channels		2 to 8 channels (customizable)
Amplification		10 dBm maximum output power
Tunable attenuation range		0 to 20 dB
Block attenuation (maximum channel attenuation)	Minimum	40 dB
Attenuation resolution		0.1 dB
Supply voltage		-48 V
Interface		RS-232, 100Base-T
Communication		SNMP
Operating temperature		-5 to 55 °C
Connector type		LC/UPC or MTP
Dimensions (W x H x D)		18.2 x 1.70 x 11.25 inches (46.2 x 4.3 x 28.6 cm) including handles
19-inch configuration, 1U high		17.2 x 1.70 x 8.8 inches (43.7 x 4.3 x 22.35 cm) not including handles

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: CPOWCA2N-06101

CPOW □ □ □ □ - □ □ □ □ □

Code	Operating Band
C	C band
L	L band

Code	Operating Frequency
A	50 GHz
B	100 GHz

Code	Number of Add/Drop Channels
2	2
4	4
6	6
8	8

Code	Amplification
N	No amplification
A	On add path only
D	On drop path only
B	On both add and drop paths

Code	Custom
Determined by JDSU at time of order	