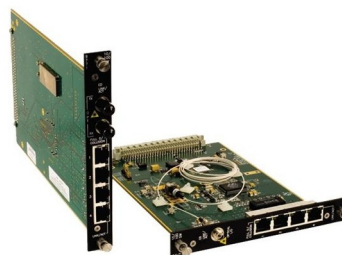## Features

- Transports a 10/100 Mb Ethernet signal over 1- or 2 fibers
- Built-in 10/100Mb unmanaged 4-port Ethernet switch
- Rack-mount version
- Network Management System (NMS) compatible

9771 Series
Fast Ethernet media converter/switch

Description

The Optelecom® 9771D series adds Ethernet transport capabilities to fiber systems. With the addition of Ethernet devices at remote locations, providing Ethernet transport on your existing system without installing new fiber, can reduce costs substantially. The Y versions operate on one fiber using WDM techniques.

The 9771D series comes as a rack-mount version, suitable for a 9002 or 9008 power supply cabinet, or as a standalone unit. The 9771D series modules are managed with the Optelecom® Network Management System (NMS).

To create a standalone version of the 9771D rack-mount card, use the 9003-2 mini chassis.

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Power requirements

Powering	
Voltage	6VDC (chassis)
Current	550mA
Electrical	
Interface(s)	4x 10/100Base-TX, MDI/MDI-X, autocrossover, autopolarity, autosensing and autodetect
Connector type	4x RJ-45
Maximum distance	100m

Performance

Address table size	4k entries
Switching method	Store-and-forward

Management

LED status indicators	
Fiber link	CD, link active
Ethernet ports (x4)	Full-duplex, link active
Management system	9900 Network Management System (NMS)

Environmental

Operating temperature	-40°C to +74°C (-40°F to +165°F)
Storage temperature	-55°C to +85°C (-67°F to +185°F)
Relative humidity	<95% with no condensation

Mechanical

9771, 9771Y	
Housing	1-slot card, 9000 series chassis
Dimensions (h x w x d)	154.9 x 20.3 x 218.4mm (6.1 x 0.8 x 8.6in)
Weight	362.9g (12.8oz)

Optical

	9771-LD TX/RX	9771/SM-15T TX/RX
Fiber type	MM (62.5)	SM (09)
Output wavelength	CWDM/1310nm	1310nm/1550nm
Output power	-7dBm/-7dBm	-7dBm/-7dBm
Input sensitivity	-34dBm/-34dBm	<-28dBm/<-28dBm
System link budget	27dB[1]/27dB[1]	21dB/21dB
Fiber length (range)2	68km	20km
Connector type	ST (others optional)	ST (others optional)

[1]For 50/125µm fiber, subtract 4dB.

[2] Range may be limited by fiber bandwidth.

Ordering information

Models	Description	Fiber type
9771-LD-ST	2-fiber Ethernet transport	2xSM
9771Y/SM-13T-ST	1-fiber Ethernet transport, A-side	1xSM
9771Y/SM-15T-ST	-fiber Ethernet transport, B-side	1xSM