OPTICAL SYSTEMS DESIGN

OSD2155 10/100/1000BaseT ETHERNET MEDIA CONVERTER CARD SUPPORTING JUMBO FRAMES

APPLICATIONS
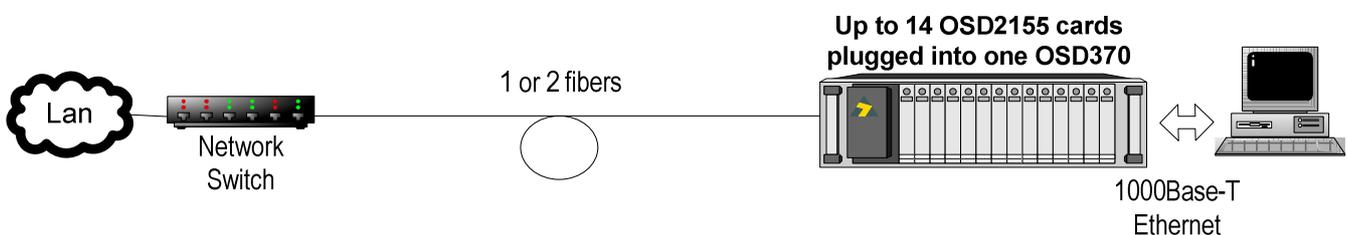
▲   Any network utilising a mix of copper and fiber

▲   Industrial IP communications

▲   Gigabit backbone networks

FEATURES AND BENEFITS

▲   Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000BaseT, IEEE802.3z 1000BaseLx/Sx standards.

▲   Supports network traffic of 100Mbps or 1000Mbps.

▲   Has one fixed 10/100/1000BaseT copper port and one SFP port which can be 10/100/1000BaseT, 100BaseFx or 1000BaseLx/Sx/Zx.

▲   Auto MDI/MDIX.

▲   Can be used with either singlemode or multimode fiber over a variety of link budgets.

▲   Supports 10KB jumbo frames.

▲   Available for operation over 1 or 2 fibers.

▲   Plugs into OSD's standard OSD350 and OSD370 3RU 19" rack mounting card frames.

▲   Operates over the temperature range of -20 to +75ºC

▲   Advanced features like Link Loss Forwarding to detect the link status of link partners either on the fiber and/or copper port

▲   Interoperates with all standard OSD and third party GbE media converters and switches

▲   SFP module sold separately.

TYPICAL SYSTEM DESIGN

Lan

Network Switch

1 or 2 fibers

Up to 14 OSD2155 cards plugged into one OSD370

1000Base-T Ethernet

ORDERING INFORMATION

OSD2155   10/100/1000BaseT to 100BaseFx/1000BaseLx/Sx media converter card
SFP Module   See OSD SFP datasheet #1021000XX

SPECIFICATIONS

ELECTRICAL

Electrical Data Interface	IEEE802.3i/802.3u/802.3ab, 10/100/1000BaseT Ethernet
Electrical Data Rate	10, 100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Jumbo Frame Support	10KB
Optical Data Interface	IEEE802.3z 1000BaseLx/Sx
Optical Data Rate	100Mbps or 1000Mbps
Operating Mode	Half or full duplex for 10/100 Full duplex for 1000 Flow control
Electrical Data Connector	RJ45
Controls	Program mode enable 100 or 1000Mbps on fiber Link loss forwarding: on or off Fault detection: fiber only or copper and fiber

OPTICAL

Optical Port Connector	SFP (LC connectors for 2-fiber operation and SC for 1-fiber operation)
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #1021000XX or contact OSD

PHYSICAL

Operating Temperature Range	-20 to +75ºC	
Relative Humidity	0 to 95% non-condensing	
OSD2155 Power Requirements	+11VDC to +13VDC supplied via the card frame backplane	
Indicators	1x	Copper Link/Activity on RJ45
	1x	Copper Speed on RJ45
	1x	Power On/Off
	1x	SFP Link/Speed on SFP
Dimensions of Card (mm)	25W x 169D x 100H	
Weight of Card (kg)	0.2	
Chassis Current Consumption (CCC)	0.25 Amp for OSD2155	