ETHERNET PRODUCTS

OSD2153P MICRO 10/100/1000Base-T to 1000Base-X BRIDGE TYPE MEDIA CONVERTER with PoE++ SOURCE

APPLICATIONS

▲ Any network utilising a mix of copper and fiber
▲ Industrial IP communications
▲ Gigabit backbone networks
▲ Extremely space constrained environments

FEATURES AND BENEFITS

▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3z 1000Base-Lx/Sx standards.
▲ Supports network traffic of 100Mbps or 1000Mbps.
▲ Has one fixed 10/100/1000Base-T copper port and one SFP port which can be 10/100/1000Base-T, 100Base-Fx or 1000Base-Lx/Sx/Zx.
▲ Auto MDI/MDIX.
▲ Can be used with either singlemode or multimode fiber over a variety of link budgets.
▲ Complies with the IEEE802.3af and IEEE802.3at standards
▲ Provides up to 60W from PSE.

▲ Available for operation over 1 or 2 fibers.
▲ Powered by non-critical 50VDC supplies.
▲ 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 the OSD2151 card or module
▲ Supports IEEE802.af/at Alternative A, and B cable wiring
▲ Supports 10KB jumbo frames
▲ SFP module sold separately.

TYPICAL SYSTEM DESIGN

▲ Available for operation over 1 or 2 fibers.
▲ Powered by non-critical 50VDC supplies.
▲ 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 the OSD2151 card or module
▲ Supports IEEE802.af/at Alternative A, and B cable wiring
▲ Supports 10KB jumbo frames
▲ SFP module sold separately.

ORDERING INFORMATION

OSD2153P Micro 10/100/1000Base-T to 1000Base-Fx/1000Base-X media converter module with PoE++
SFP Module See OSD SFP datasheet #1021000XX
SPECIFICATIONS

ELECTRICAL

Electrical Data Interface: IEEE802.3i/802.3u/802.3ab, 10/100/1000Base-T Ethernet
Electrical Data Rate: 10, 100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Jumbo Frame Support: 10KB
Optical Data Interface: IEEE802.3z 1000Base-Lx/Sx or IEEE802.3u 100Base-Fx
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: 100 or 1000Mbps on fiber
            Link loss forwarding: on or off
            Fault detection: fiber only or copper and fiber
PoE: IEEE802.3af, IEEE802.3at and PoE++
Operating Mode: Alternative A & B (Pins 1/2, 3/6, 4/5, and 7/8)

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
OSD2153P Power Requirements: +46VDC to +57VDC @ 6W plus up to an extra 60W for PoE operation
                            (attached powered device dependent)
                            ≥52VDC recommended for PoE+ or ≥55VDC for 60W PoE
Power Connector: 2-way 3.5mm terminal block on the module
Indicators: 1x Copper Link/Activity on RJ45
            1x Copper Speed on RJ45
            1x PoE Enable/Disable
            1x Power On/Off
            1x Link Loss Forwarding Enable/Disable
            1x SFP Link/Speed on SFP
Dimensions (mm): 90W x 58D x 49H
Weight (kg): 0.3