

Gigabit Fiber Media Converter

Prime Connect 4055s

The Optech Network Solutions Prime Connect 4055s is a compact Gigabit Ethernet media converter designed to connect copper Ethernet networks with fiber-optic infrastructure. It provides a 10/100/1000 Mbps RJ45 Ethernet interface and a modular SFP interface, allowing the fiber connection to be selected according to the required fiber type, connector and transmission distance.

The Optech Network Solutions Prime Connect 4055s is a Gigabit Ethernet media converter that connects copper Ethernet networks to fiber-optic infrastructure. It features a 10/100/1000 Mbps RJ45 port and a modular 1000 Mbps SFP slot.

The modular SFP interface supports compatible multi-mode and single-mode fiber transceivers, allowing transmission distance to vary according to the selected module. The device also supports Ethernet auto-negotiation and Auto MDI/MDIX for simplified connectivity.

Designed for compact network deployments, the Prime Connect 4055s features front-panel LED indicators for power and link/activity monitoring. It is suitable for extending Gigabit Ethernet connectivity across buildings, surveillance networks, and other fiber-based applications.

Benefits

- Ethernet Auto-Negotiation
- Auto MDI/MDIX Support
- IEEE 802.3x Flow Control
- Front-Panel LED Indicators
- Compact Metal Enclosure
- External DC Power

Features

- Gigabit Ethernet Connectivity
- 10/100/1000 Mbps RJ45
- Modular Gigabit SFP
- Multi-Mode Fiber Support
- Single-Mode Fiber Support
- Flexible Transmission Distance

Applications

- Gigabit Fiber Network Extension
- Building-to-Building Connectivity
- Industrial Ethernet Networks
- Video Surveillance Networks

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- Remote Network Connectivity
- Utility Communication Networks
- Fiber-Based Automation Networks

Technical Specification

Standards & Protocols	IEEE 802.3 / 802.3u / 802.3ab / 802.3z / 802.3x
RJ45 Interface	1 × 10/100/1000 Mbps Port
Fiber Interface	1 × 1000 Mbps SFP Slot
SFP Compatibility	Compatible 1000BASE-X SFP Modules
Fiber Type	Multi-Mode / Single-Mode Fiber
Copper Network Media	Cat5/5e UTP/STP Cabling
Copper Transmission Distance	Up to 100 m
Fiber Transmission Distance	SFP-Dependent Transmission Distance
Wavelength	SFP-Module Dependent
Operating Mode	Auto-Negotiation, Half/Full-Duplex
Auto MDI/MDIX	Supported on RJ45
Flow Control	IEEE 802.3x Flow Control
LED Indicators	Power / Link-Activity / Gigabit
Power Supply	External DC Power Adapter
Power Consumption	Approximately 1.7 W
Dimensions	94.5 × 73 × 27 mm
Enclosure	Ventilated Metal Enclosure
Installation	Standalone Desktop Installation
Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 70°C
Operating Humidity	10%–90% RH, Non-Condensing
Storage Humidity	5%–90% RH, Non-Condensing
Compliance	Ethernet / EMC Compliance

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