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Mini Industrial Unmanaged Media Converter Data Sheet

Brief Introduction

The IMC-GA1D1TS Mini Gigabit Ethernet Media Converter bridges 1000Base-X fiber to 10/100/1000Base-T copper networks, enabling fiber extension up to 20 kilometers. With its fixed configuration, plug-and-play deployment, and compact size, it is ideal for space-constrained environments. Housed in a rugged IP40-rated enclosure, it operates within a wide temperature range of -30°C to 75°C, making it suitable for harsh environments. Integrated LED indicators (Power, Link, Activity, Speed) facilitate status monitoring and maintenance, minimizing network downtime. Built-in Link Fault Pass-Through (LFP) technology ensures complete end-to-end link transparency, enhancing troubleshooting efficiency and network reliability. It also extends the reach of existing industrial networks by connecting CAT5/5e/6 cables to single-mode fiber.

Features

- Unit and Port LEDs allow for quick status information
- Auto-Negotiation
- Fixed Full-Duplex on fiber
- Auto-MDI/MDIX
- Automatic Link Restoration
- Connect to legacy network equipment
- Eliminate Collision Domains
- 10/100/1000Base-TX UTP to 1000Base-FX fiber media converter
- Supports IEEE802.3U IEEE802.3z 1000Base-TX/FX protocols , IEEE802.3ab standards
- ST optional
- DIP switch to set different configurations
- Compact package size
- Supports IEEE802.3x flow control; auto MDI-MDIX function; LFP function

Specification

Transmission Distance	Distance depend on Fiber Tranceiver Fiber: SM 20km
Store-and-Forward Mode	1518Bytes
Pass Through Mode	10KBytes
LFP Mode	Support
DIP Switches	LFP function (optional)
Connector	One UTP RJ-45 connector, one ST connector, one DC-inlet connector
Operation Mode	Full duplex or half duplex mode
Power Requirement	Operating Voltage DC 9~56V Rated Current: 0.5/0.25A Power Consumption: Full-load<3W
Environmental Requirement	Operating Temperature: -30°C~75°C Storage Temperature: -40°C~85°C Relative Humidity: 5%~95% (non-condensation) MTBF: 100,000h Enclosure: Metal

Mechanical Structure	Dimensions: 118mm(L)x39mm(W)x26mm(H) Weight: 120g
Warranty	2 Year



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