# AT-IMCI000T-SFP 2-PORT GIGABIT ETHERNET INDUSTRIAL MEDIA CONVERTER

Allied Telesis Industrial Ethernet Media Converters (IMCs) offer an operating range from -40°C to 75°C. The temperature-hardened IMC Series features Plug and Play and auto-negotiation.

## **Extend Networks**

The AT-IMCI000T/SFP is designed to extend the distance of a network by converting any Ethernet data between twisted-pair cabling to multimode or single mode fiber-optic cabling Gigabit Ethernet (IEEE 802.3z). The IMC1000T/ SFP operates at industrial temperature (-40°C to 75°C) and features a 1000X SFP fiber port and a 10/100/1000T twisted-pair port. The fiber-optic port features a modular SFP bay for any kind of MSA-compliant pluggable SFP model working at IGbps. The twistedpair port has an RI-45 connector with a maximum operating distance of 100 meters (328 feet).

## **VLAN Support**

Many new backbone switch products now support the industry-standard IEEE

## **Specifications**

## Connector

1 x SFP slot, supports only 1000Mbps Fiber BJ-45 CAT-5 or over (10/100/1000T) twisted pair Auto MDI/MDI-X Auto-Negotiation

#### Status LEDs

Power 1	Active/Inactive
Power 2	Active/Inactive
Fault	Fault/Functional
LINK/ACT (Fiber)	Connected/Not connected/Active
1000M (RJ-45)	1000M / 10/100M
LINK/ACT (RJ-45)	Connected/Not connected/Active

#### **DIP Switch**

1	Enable/disable power alarm
2	Link Lose Forwarding

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## Link Lose Forward

TX to Fiber	If TX port link down, the media converter will
	force Fiber port to link down
Fiber to TX	If Fiber port link down, the media converter will
	force TX port to link down

802.1Q specification for Virtual LANs (VLANs) that send extra-long data packets on the network. The IMCI000 Series switches are fully compatible with these long packets, enabling them to be used in modern networks. Switches not supporting this feature will discard these extra-long packets, making them unsuitable for modern networks.

## **Small and Flexible**

The small size and dual external power supply inputs of the IMC1000 Series allows them to be used almost anywhere in harsh environmental conditions. Additionally, they can be installed both on DIN rail (EN50022) or by wallmount, allowing users to deploy any mix of required network conversions.

#### Standards and Compliance 10BASE-T IE

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IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3x	Flow Control and back pressure
IEEE 802.3z	1000BaseSX/LX standards

#### **Power Characteristics**

12~48 vDC External power supply 5.28 Watts Power consumption

#### **Environmental Specifications** -40°C to 75°C (-40°F to 167°F)

5% to 95% relative humidity

0 m to 2000 m (operational)

-40°C to 85°C (-40°F to 185°F)

(non-condensing)

Operating temperature Operating humidity Storage temperature Altitude

#### **Physical Specifications**

Dimensions	3 cm x 9.5 cm x 14 cm
(W x D x H)	1.18 in x 3.74 in x 5.51 in
Weight	0.7 kg (1.45 lbs)
Case Material	Metal, IP-30

### Installation

DIN rail (EN50022) or wallmount



## **Key Features**

- » UTP to Fiber media converter
- » RJ-45 port supports Auto MDI/MDI-X function
- » Auto negotiation speed, half/full duplex
- » Store-and-Forward switching architecture
- » Built-in Link Lose Forwarding (LLF) and Link Fault Pass-Through (LFP) technology
- » RoHS compliant
- » Jumbo Frame: 9Kbytes
- » Supports wide operating temperature (-40°C~75°C)
- » Wide-range redundant power design
- » Power Polarity Reverse Protect
- » Overload current resettable fuse present
- » IP-30 protection
- » DIN rail (EN50022) and wallmount design
- » Provides EFT protection 3000 vDC for power line
- » Supports 6000 vDC Ethernet ESD protection

#### **Electrical and Mechanical Approvals**

FMI FCC Class A CE EN61000-4-2 (ESD) CE EN61000-4-3 (RS) CE EN61000-4-4 (EFT) CE EN61000-4-5 (Surge) CE EN61000-4-6 (CS) CF FN61000-4-8 EN61000-4-11 CE EN61000-6-2 CE EN61000-6-4 C-TICK UL60950 Safety CE EN60950-1 (LVD) Class I, Division 2, Groups A, B, C, Hazardous Locations Stability IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

## **Ordering Information**

AT-IMCI000T/SFP-80 10/100/1000T to 1000X SFP, industrial temperature

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Specifications	
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	CE EN61000-4-8
	EN61000-4-11
	CE EN61000-6-2
	CE EN61000-6-4
	C-TICK
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	CE EN60950-1 (LVD)
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AT-IMC1000T/SFP-80 10/100/1000T to 1000X SFP, industrial temperature

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the solution : the network

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