

Industrial Media Converter

User Manual

V1.00

FCC MARKING

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE MARKING

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

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(P/N: 41RP-IMC60100-AQG)

Introduction

This true mini, rugged Industrial media converter is designed for where critical but space-limited outdoor CAM enclosure. It can be powered by wide range of VAC , VDC or external DC power adapter . With its multi-purpose design, it can also be used for Din-Rail or wall-mounted. It is an ideal unit for IP surveillance, traffic monitoring and Security application in critical environment. It can tolerate -40°C to 75°C in harsh environment to perform a reliable network.

Key Features

- True Mini, rugged design enclosure
- Supports 18V-36VAC/12V-60VDC/ or DC Jack socket
- Supports Link Fault Pass through (LFP) function
- Supports switch model and converter mode.
- Surge protection diodes on power input.
- ESD protection diodes on RJ-45 port
- Provides Far End Fault function on FX port.
- Provides increased Noise Immunity
- Extended environmental specification -40°C to 75°C

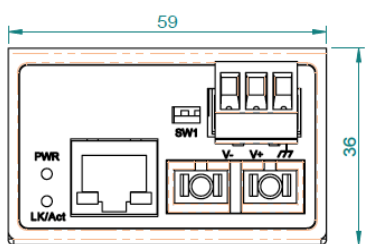
Package Contents

- 1 x Industrial Media converter
- 1 x User Manual
- 1 x 3 pin Terminal Block
- 2 x Wall Mounting Bracket and 4 x Screws
- 1 x Din Rail Bracket

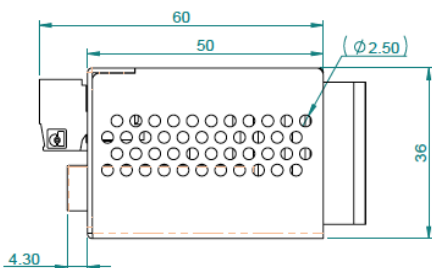
Compare the contents of the industrial switch with the standard checklist above. If any item is damaged or missing, please contact the local dealer for service.

Physical Dimension

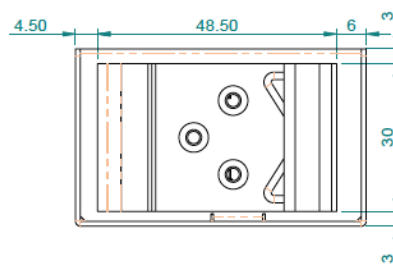
10/100Base-TX to 100Base-FX Industrial Media Converter dimension (W x D x H) is 59mm x 50mm x 36mm



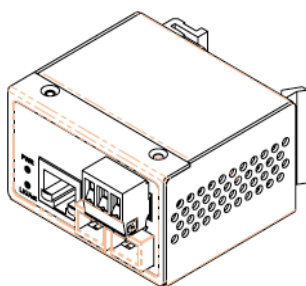
Front View



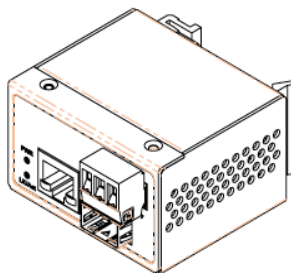
Side View



Din Rail



SC type



SFP type

LED Indicators

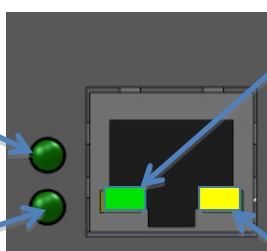
Power:

ON - Power is detected

Fiber port Link/Active:

ON - fiber is detected

Flashing - data is transmitting



Green:

ON - TX link is detected

Flashing - TX data is

Amber:

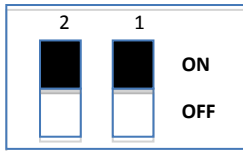
ON - 100M speed is detected.

OFF - 10M speed is detected

Dip switch function

This unit is equipped with dip switches, located on the front panel marked as SW1. Adjusting the dip switches will change the default function of this unit. This unit has set to manufacturer default as: switch mode and LFP function off.

The table shown as you may change the dip switch setting to your desired environment.



SW1

DIP 1	ON	Converter mode
	OFF	Switch mode (default)
DIP 2	ON	LFP function enabled
	OFF	LFP function disabled (default)

Wiring the Power Inputs

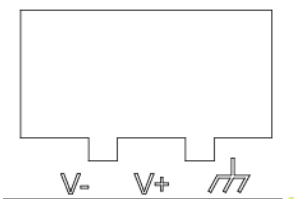
This unit provides 3 pin terminal block. And it can be operated using either VAC or VDC power source. The VDC power range is from 12VDC to 60VDC, and the VAC power range is from 18VAC to 36VAC. Always Make sure your input voltage is within this supported voltage range.

WARNING:

Any exceeded input voltage will not make this unit function and may damage this unit.

To make power connection – Follow the printed polarity for V+, V- ground. Connect positive wire to V+ , connect negative wire to V-, also connect neutral wire to ground.

Connecting procedure



STEP 1 – Pull out 3 pin terminal block.

STEP 2 – Connect wire to V+, V-, and Ground

STEP 3 – Connect SFP fiber connector or SC fiber wire to fiber port.

STEP 4 – plug back 3 pin terminal block to its place.

WARNING:

Always pull out terminal block to connect power wire. DO NOT force SFP fiber into SFP housing without removing terminal block.

Specification

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3u 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure
Data Processing	Store and Forward
Flow Control	IEEE 802.3x Flow Control and Back Pressure
Architecture	Full wire speed conversion, Transparent conversion to 802.1Q VLAN tagged packets.
MAC address Table Size	1K
Packet Buffer Size	1Mbits
Network Connector	RJ-45 Port: 10/100M BaseT(X) Auto negotiation, Auto MDI/MDI-X function, Full/Half duplex Fiber port: 100BaseFX SC, ST, SC SM 30km, SFP 100BaseX
LED indicators	Power, Speed, Link/Act Speed (TP port) Link/Act(TP and Fiber port)
DIP Switch	Link Fault Pass Through (LFP) Converter Mode, Switch Mode
Power protection	Surge protection diodes on power input
Connector protection	ESD protection diodes on TX port
Reserve polarity protection	Present
Overload current protection	Present
Power Input	18V-36VAC, 12V-60VDC, DC Jack terminal cable supported (DC Barrel Connector)
Conformance to UL Standards	Use Isolated power supply to conform with UL 508 standard
Power Consumption	1.44Watts
Removable Terminal Block	3 pin contact terminal block for power input
Operating Temperature	-40°C~75°C
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40°C~85°C
Housing Design	IP40 Design, high graded Aluminum
Case Dimension (W X D X H)	59x36x49mm
Installation	DIN Rail mounted, Panel Mounted,
EMC/EMS	CE, FCC
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EMS	EN61000-4-2 (ESD) Level 3 EN61000-4-3 (RS) Level 2 EN61000-4-4 (EFT) Level 2 EN61000-4-5 (Surge) Level 2 EN61000-4-6 (CS) Level 2 EN 61000-4-8 (PFMF) Level 1
Safety	UL508 (Pending)
Rail Traffic	EN 50121-4 (Pending)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	RoHS, REACH

