VOLKTEK

Quick Installation Guide
IMC-561

1. Overview

The IMC-561 Unmanaged Industrial Media Converter is specifically engineered to offer an affordable solution for industrial network systems. Built to withstand wide operating temperature from -10°C to 60°C, IP30 metal case, manufactured with industrial components, Safety/EMI/EMS certified, Shock/Freefall/Vibration approval, the media converter can operate consistently even in harsh industrial environments.

The IMC-561 features 1 x 10/100/1000Base-T port and 1 x 100FX/ Gigabit SFP slot to satisfy new and evolving network demands. Other than that, the IMC-561 features intelligent functions like Auto MDI/MDI-X, LFS (Link Fault Signalling), LLB (Line Loopback), LEDs, DIP switches etc. to provide easy plug-and-play, continuous monitoring thereby minimizing downtime for mission-critical networks.

2. Package Checklist

Verify that the package contains the following items:

- IMC-561 x 1
- DIN-Rail kit x 1
- Quick Installation Guide x 1

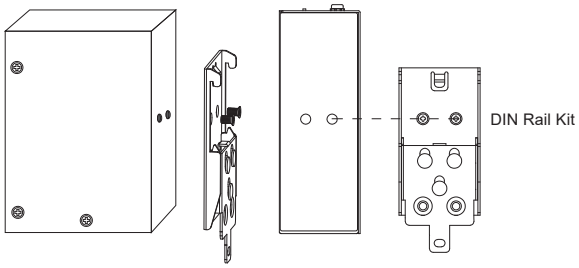
3. Hardware Installation Procedure

STEP 1:

Take out the device from its packing.

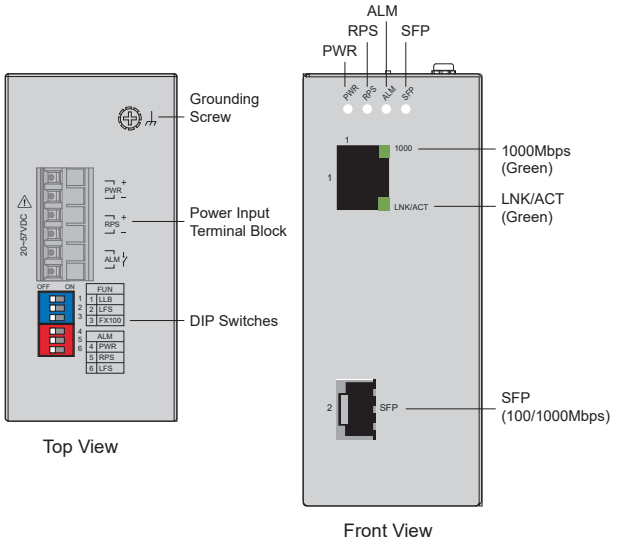
STEP 2:

Attach the DIN-Rail as picture.



STEP 3:

- 20~57VDC power properly to PWR & RPS (Terminal Block).
- Connect Alarm Relay output (ALM) to Alarm System.



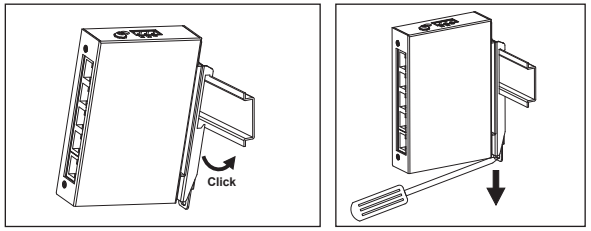
STEP 4:

Connect the Ethernet (RJ-45) port to the networking device. See the LNK/ACT LED to confirm that the connection is established.

4. Location

The IMC-561 can be DIN-Rail mounted in the cabinet or enclosure.

DIN-Rail Mounting for IMC-561



Mounting the Converter (illustration)

Removing the Converter (illustration)

5. Cabling RJ-45

The RJ-45 ports on the IMC-561 support auto negotiation and auto MDI/MDI-X. This feature eliminates the worry of using specific cable types.

Note: Category 5e cable or above should be used.

6. Redundant Power Inputs

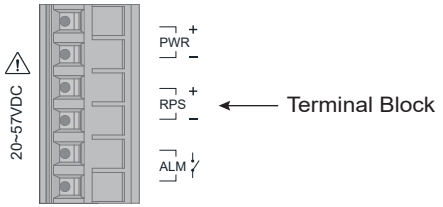
6.1. Safety first

Turn the power off before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. Do NOT use a voltage greater than what is specified on the product label.

Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If current go above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

6.2. Wiring the Redundant Power Inputs

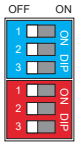
You can use “Terminal Block (PWR)” for primary power and “Terminal Block (RPS)” for secondary power source, to be a Redundant Power Input. Top view of Terminal Block is shown as picture.



Redundant Power Input

Insert the terminal block connector which includes “PWR” and “RPS” into the terminal block receptor.

7. DIP Switch Setting



1	LLB	ON: LLB is enabled
		OFF: LLB is disabled
2	LFS	ON: LFS is enabled
		OFF: LFS is disabled
3	FX100	ON: Port 2 (SFP) speed at 100Mbps
		OFF: Port 2 (SFP) speed at 1000Mbps
4	PWR	ON: Master power alarm reporting is enabled
		OFF: Master power alarm reporting is disabled
5	RPS	ON: Redundant power alarm reporting is enabled
		OFF: Redundant power alarm reporting is disabled
6	LFS	ON: Alarm for LFS issue is triggered
		OFF: Alarm LFS is disabled

8. LED Indicators

PWR (Green)	Illuminated	Primary power on
	Off	Primary power off or failure
RPS (Green)	Illuminated	Redundant (Secondary) Power on
	Off	Redundant Power off or failure
ALM (Red)	Illuminated	Alarm for following conditions - LFS (Link Fault Signaling) alarm - Power lost
	Off	Normal operation, no LFS alarm or power lost issue
1000 (Green)	Illuminated	Link speed at 1000Mbps
	Off	Link speed at 10/100Mbps
LNK/ACT (Green)	Illuminated	Ethernet link up
	Blinking	Activity (receiving or transmitting data)
	Off	Port disconnected or link failed
SFP (Green)	Illuminated	SFP port link-up
	Blinking	Activity (receiving or transmitting data)
	Off	Port disconnected or link failed

9. Environmental limits

Operating Temperature	-10°C~60°C (14°F~140°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient relative humidity	5 to 95% (non condensing)

LIMITED WARRANTY

VOLKTEK Corporation warrants this product against defect in materials and workmanship for a period of THREE (3) YEARS to the original purchaser.

If you discover a defect, VOLKTEK will, at its sole option, repair or replace the product at no additional charge, provided that you contact VOLKTEK technical support to obtain a Return Merchandise Authorization Number (RMA) and instruction on how and where repairs can be made. This warranty does not apply if the product has been damaged by accident, abuse, misuse, misapplication, neglect, fire, water, lightning or other acts of nature, failure to follow supplied instructions, installation or removal, have been repaired or have undergone attempted repair by unauthorized personnel without written consent from VOLKTEK, modified, defaced, or has its serial numbers removed. VOLKTEK reserves the right to use remanufactured, refurbished, or used parts and components in making warranty repairs.

All expressed or implied warranties for this product, including the implied warranties of merchantability and fitness for a particular purpose are limited in duration to the warranty period. No warranties expressed or implied will applied after this period. VOLKTEK shall not be liable for lost profits, damage to other property caused by any defects of this product, or damages based upon inconvenience, loss of product use, loss of time, commercial use, incidental and/or consequential damages for the breach of any expressed or implied warranty, including damages to property, and to the extent permitted by law, damages for personal injury, even if VOLKTEK has been advised of the responsibilities of such damages.

If you have any further questions, please contact Customer Support:

Address of the manufacturer.

VOLKTEK CORPORATION
4F, 192 Liancheng Rd, Zhonghe, New Taipei 235038, Taiwan
E-mail: support@volktek.com
Tel: +886-2-8242-1000
Fax: +886-2-8242-3333