VOLKTEK

Quick Installation Guide
HMC-652E

1. Overview

The HMC-652E Converter is used to connect devices with 10/100Base-T cable to fiber-based Ethernet. The HMC-652E is enhanced with Link Fault Signaling and Loop-back Testing.

2. Package Checklist

Before installing the HMC-652E, verify that the package contains the following items:

- 1 x HMC-652E Converter
- Power adapter (Check for area type)
- Quick Installation Guide
- DIN Rail Kit
- DC Lock(Optional)

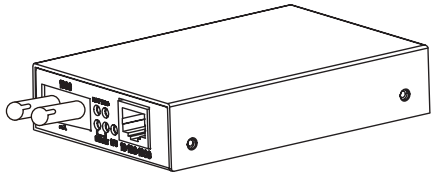
3. Hardware Installation Procedure

STEP 1: Remove from packaging and connect the 12V DC adapter to the power input on rear panel.

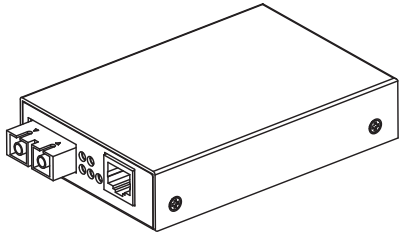
STEP 2: Connect the Ethernet (RJ-45) port to the networking device. See the LNK/ACT LED to confirm if the connection is established.

STEP 3: Connect the fiber cable to the fiber port.

STEP 4: See DIP switches on rear panel to enable/ disable the required features per application

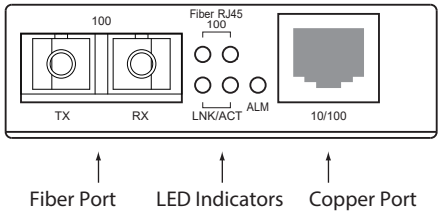


Converter with ST and RJ45 connectors

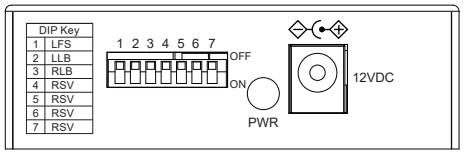


Converter with SC and RJ45 connectors

Front Panel View



Rear Panel View with DIP Switches



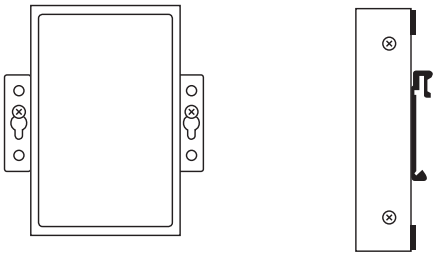
4. DIP Switches

1. LFS	ON : Link fault signal function is enabled
	OFF: Link fault signal function is disabled. (Default)
2. LLB	ON : Local loopback function is enabled
	OFF: Local loopback function is disabled. (Default)
3.RLB	ON : Remote loopback function is enabled
	OFF: Remote loopback function is disabled. (Default)
4~7 RSV	The DIP means Reserve. The default is in OFF position.

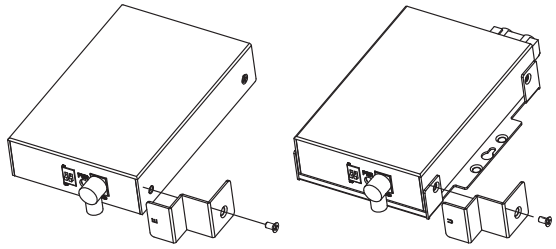
5. Location

The HMC-652E can be placed on a desktop or horizontal surface, it can be wall-mounted, or DIN-Rail mounted.

Wall-mounted **DIN-Rail-mounted**



To prevent the DC Plug from falling out, please follow the steps below:



Step 1: Install the DC connector plug first.

Step 2: Unscrew the screw next to the DC connector plug.

Step 3: Insert the metal connector fixture covering the adapter plug.

Step 4: Re-screw the metal connector fixture. Ready to use.

6. Cabling RJ45

Connect Ethernet/RJ45 cable into Ethernet port of media converter and other end to attached networking device.

- Copper of the media converter supports Fast Ethernet (10/100Base-T RJ45 Port)
- The RJ45 port on the media converter supports auto negotiation and auto MDI/MDI-X to eliminate the need for crossover cabling.

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

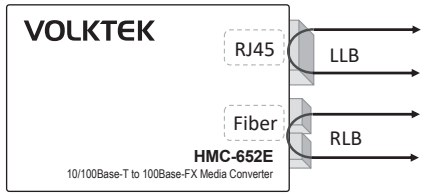
7. Link Fault Signaling (LFS)

The LFS LED will immediately light to indicate when a cable has been severed or when some other cause of disruption in service has occurred. The LFS function monitors both copper and fiber segment giving a total connection status report.

DIP Switch 1: Set LFS to ON for normal operational use; OFF when installing cables or when testing the network connection.

8. Loop back Test

This Converter features DIP switches to activate both local and remote loopback diagnostic test functions. Use local loop back (LLB) to check if the copper segment is connected properly, and use remote loop back (RLB) to check if the fiber segment is connected properly.



Note: When enabling loopback testing in one side, another's traffic will be blocked until the loopback is disabled.

9. LED Indicators

PWR (Green)	Illuminated	Power On by 12VDC power input
	Off	Power fails or is not available
ALM (Red)	Illuminated	LFS enabled and link fault happened
	Off	LFS disable or no link fault happened
RJ45		
100	Illuminated	links speed at 100Mbps
	Off	Link speed at 10Mbps or link failed
LNK/ACT	Illuminated	Copper port link-up
	Blinking	Data is transmitting / receiving
	Off	Link failed
Fiber		
100	Illuminated	links speed at 100Mbps
	Off	link failed
LNK/ACT	Illuminated	Fiber port link-up
	Blinking	Data is transmitting / receiving
	Off	Link failed

10. Environmental limits

Operating Temperature	-10˚C~60˚C
Storage Temperature	-40˚C~85˚C
Altitude	Up to 2000m
Ambient relative humidity	5 to 95% (non-condensing)

ATTENTION:
This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

ATTENTION:
If the equipment is used in a manner not specified by the VOLKTEK, the protection provided by the equipment may be impaired.

Limited Warranty

VOLKTEK Corporation warrants this product against defect in materials and workmanship for a period of TWO (2) 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.

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