



Industrial Ethernet to Fiber Media Converter

HNT-1401 Series
10/100 Base-T(X) to 100Base-FX Media Converters

Hardware Installation Guide

Version 1.3

Updated in April, 2019



Introduction

HNT-1401 series provide industrial grade media conversion between 10/100Base-T(X) and 100Base-FX (SC connector).

HNT-1401 Series

■ HNT-1401FM-SC-X1:
Fast Ethernet 10/100Base-T(X) to 100Base-FX Media Converter with extended operating temperature.

Include 1 10/100Mbps RJ45 and 1 100Mbps Multi-mode Optical Fiber.

■ HNT-1401FS-SC-X1:
Fast Ethernet 10/100Base-T(X) to 100Base-FX Media Converter with extended operating temperature.

Include 1 10/100Mbps RJ45 and 1 100Mbps Single-mode Optical Fiber.



Never install or work on electrical or cabling during periods of lightning activity. Never connect or disconnect power when hazardous gases are present.



WARNING:
Disconnect the power and allow to cool 5 minutes before touching.



Caution:
CLASS 1 LASER PRODUCT. Do not stare into the laser!

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.

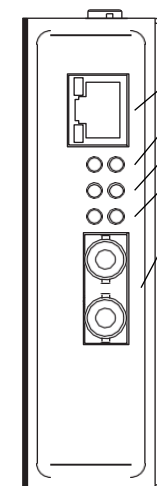
Inside the Package

- Main Product
 - Industrial Ethernet Media Converter x1
- Standard accessories
 - 3-pin Terminal Block (2ESDVM-03P) x1
 - RJ-45 Port Plugs x1

Optional Accessories: [Contact sales@sbjlink.com](mailto:sales@sbjlink.com)

- 3-pin Terminal Block(2ESDVM-03P)
- Adapter : 3-pin Terminal block (5.08 mm) power adaptor, 100-240VAC input, 1.25A @ 12VDC output, US plug
- Adapter : 3-pin Terminal block (5.08 mm) power adaptor, 100-240VAC input, 1.25A @ 12VDC output, EU plug

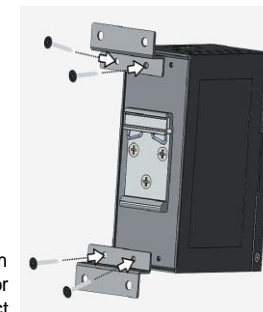
Product Description



- ◀ HNT-1401 Series
1. TX Port: 10/100 Base-T(X)
 2. Green: PWR SPD LED
 3. Green: TX_LINK/ACT TX_FDX/COL LED
 4. Green: FX_LINK/ACT FX_FDX/COL LED
 5. FX Port: 100 Base-FX (SC Connector)

Hardware Installation

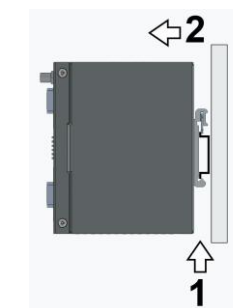
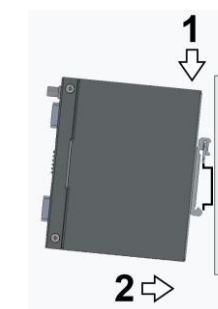
- Electrical
- Step 1:** Unpack the Media Converter, check to make sure no external damages.
- Step 2:** Connect the power adapter/supply (6-48VDC); It is normal to see the PWR indicator on.
- Step 3:** Connect the RJ-45 port to your Ethernet device.
- Step 4:** Connect the fiber optical port from HNT-1401 to another HNT-1401 or a switch. Make sure you connect the cable's Tx to Rx and Rx to Tx. At this point, you should see the FX_LINK/ACT LED indicator on.



- Step 5:** Now check to make sure your Ethernet device can access the network.

■ Mechanical
Media Converters are equipped with a DIN-Rail bracket attached onto the rear panel. Follow the steps below to fasten the Media Converter to the DIN-Rail.

- Step 1:** Tilt the unit slightly backwards.
- Step 2:** Fit the unit over top the DIN-Rail.
- Step 3:** Push downwards and against the DIN-Rail for locking.
- Step 4:** Check that the unit is locked into position.



DIP Switch Definition

| DIP Switch | Mode | OFF | ON |
|------------|------------------|------------------|---------|
| 1 | TX_DUPLEX_MODE | Full(default) | Half |
| 2 | FX_DUPLEX_MODE | Full(default) | Half |
| 3 | SPEED_MODE | 100M(default) | 10M |
| 4 | LFP | Disable(default) | Enable |
| 5 | Auto Negotiation | Enable(default) | Disable |

* SPEED is only for TX

* LFP: Link Fault Pass-through

* This table only applies to HNT-1401 series

Pin Assignment of Network Connections

10/100 Base-T(X) Ethernet Port Connection

| 10/100BASE-T(X) | | | | | | | | |
|-----------------|-----|-----|-----|---|---|-----|---|---|
| Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Signal | Tx+ | Tx- | Rx+ | - | - | Rx- | - | - |

LED Indicators

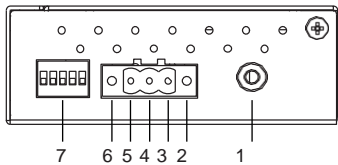
| LED | Color | State | Description |
|-------------|-------|----------|--|
| PWR | Green | On | System is powered on |
| | | Off | System is not powered on |
| SPEED (SPD) | Green | On | TX port is running at 100Mbps |
| | | Off | TX port is running at 10Mbps |
| TX_LINKACT | Green | On | TX port is connected |
| | | Off | TX port is disconnected |
| | | Blinking | Data is transmitting on this port |
| TX_FDX\COL | Green | On | TX port is transmitting in full duplex mode |
| | | Off | TX port is transmitting in half duplex mode |
| | | Blinking | TX port is transmitting in half duplex mode and collision has occurred |
| FX_LINKACT | Green | On | FX port is connected |
| | | Off | FX port is disconnected |
| | | Blinking | Data is transmitting on this port |
| FX_FDX\COL | Green | On | FX port is transmitting in full duplex mode |
| | | Off | FX port is transmitting in half duplex mode |
| | | Blinking | FX port is transmitting in half duplex mode and collision has occurred |

LED Indicators

| LED | Color | State | Description |
|------------|-------|----------|--|
| ACT | Green | Blinking | Data is transmitting on both TX and FX ports |
| TX_LINKACT | Green | On | TX port is connected |
| | | Off | TX port is disconnected |
| | | Blinking | Data is transmitting on this port |
| PWR | Green | On | System is powered on |
| | | Off | System is not powered on |
| FX_LINKACT | Green | On | FX port is connected |
| | | Off | FX port is disconnected |
| | | Blinking | FX port is transmitting in half duplex mode and collision has occurred |

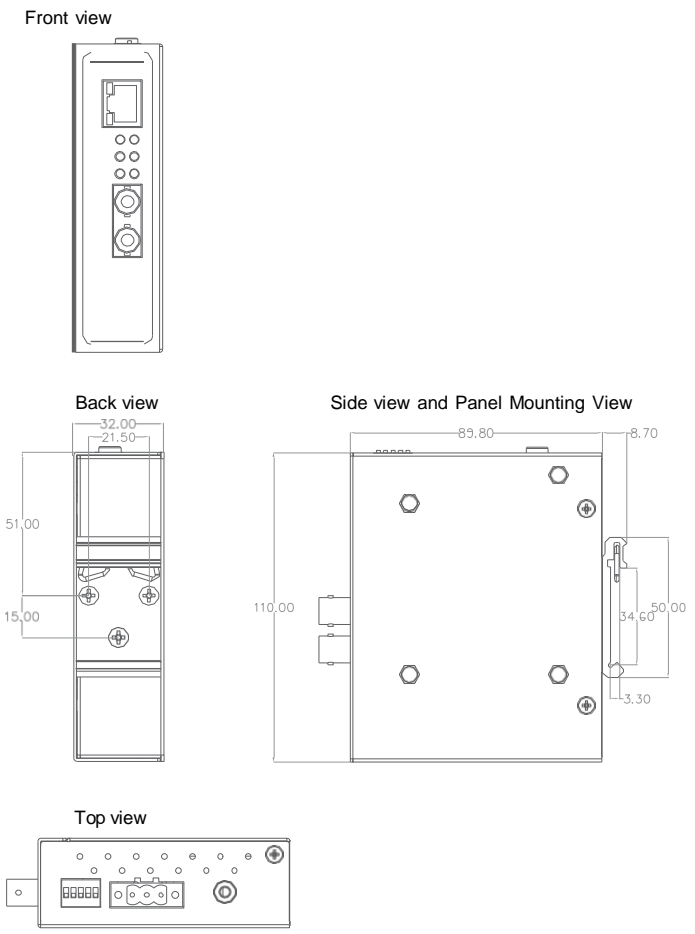
3-pin Terminal Block for power input

HNT-1401 Series



1. Grounding screw
2. LOCK
3. Frame Ground
4. V-
5. V+
6. LOCK
7. DIP Switch

Mechanical dimensions(unit=mm)



Sbjlink Services and Support

1. Please contact your local dealers or Sbjlink Support at the following.
Phone: + 886-935672398
Email: support@sbjlink.com
2. Please report the defected problems with below E-mail
Email : support@sbjlink.com or sales@sbjlink.com

Any changes to this material will be announced on Sbjlink website.