108M Series Ultra-Speed VDSL2 Extender Quick Installation Guide

Version: 1.01

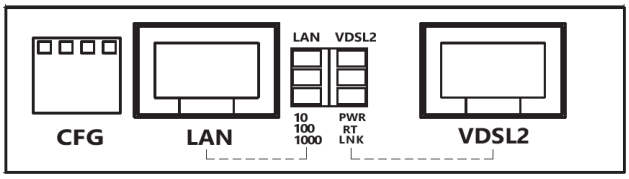
Overview

Combination of any two of 108M, 108MI, and 108MI-TB features a pair of point-to-point solutions utilizing VDSL2 technology for carrying Ethernet data over UTP cables.

Front Panel Illustration

The following interfaces are placed on the front panel:

- 1 x RJ-45 connector for Gigabit Ethernet LAN port
- 1 x RJ-45 connector for VDSL2 port
- 3 x LEDs for LAN port speed and link status
- 1 x LED for power status
- 1 x LED for RT mode activation
- 1 x LED for VDSL2 link status
- 4 DIP Switches for CFG (Configuration)



LED Indicators

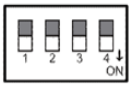
LEDs on the right

LED	Color	Blink	On	Off
PWR	Green	N/A	Device Power On	Power Off
RT	Green	N/A	RT (Remote)	CO (Master)
LNK	Green	Slow: Idle Fast: Training	VDSL2 LINK UP	VDSL2 LINK DOWN

LEDs on the left

LED	Color	Blink	On	Off
10	Green	Data Transmitting	10Mbps	LINK DOWN
100	Green	Data Transmitting	100Mbps	LINK DOWN
1000	Green	Data Transmitting	1000Mbps	LINK DOWN

DIP Switch Configuration



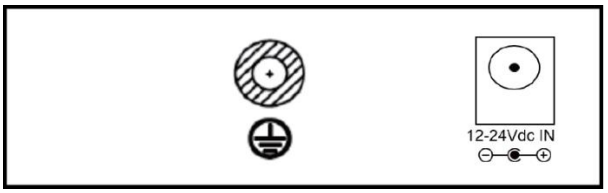
DIP Switch	Function	On	Off
1	RT/CO	RT	CO
2	Asymm/Symm	Asymmetric	Symmetric
3	Mode	Interleave	G.INP
4	SNR	Low	High

Note:
The factory default setting of switch 1 is "ON", other three DIP switches are at "OFF" positions. Before adjusting the DIP switch, ensure that the power has been turned off.

Power Connection

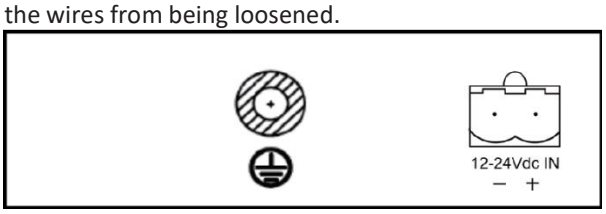
There are two options for power input from the rear panel.

(1) 108M/108MI: Input from DC Jack, 12 ~ 24VDC,--◉-+



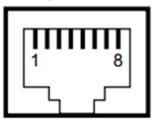
(2) 108MI-TB: Input from Terminal Block range 12 ~ 24VDC

Insert the positive and negative wires into V+ and V- contacts on the terminal block and tighten the wire-clamp screws to prevent the wires from being loosened.



LINE Port Pin Assignments

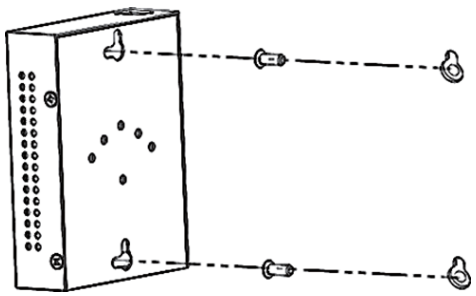
Two of the eight pins of VDSL2 port are used to connect UTP cable over long distances, pin-out assignments are shown in the table below.

Pin	Description	Figure
1	Not Used	8-pin RJ45 
2	Not Used	
3	Not Used	
4	ANALOG Input/Output	
5	ANALOG Input/Output	
6	Not Used	
7	Not Used	
8	Not Used	

Wall Mounting

Wall mounting is only supported by 108MI and 108MI-TB.

- At the rear side, two mounting holes are placed for horizontal or vertical wall mounting.
- The length of the screw head and body, must not be longer than 3mm inside the device body.



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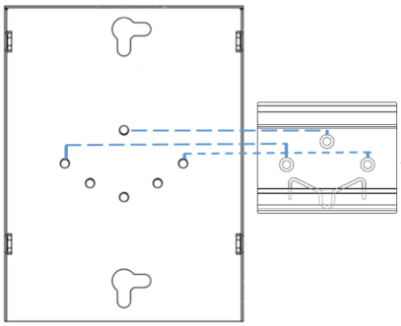
DIN Rail Installation and Mounting

DIN Rail clip and the three screws are optional accessories, and not included in a standard package. DIN Rail installation and mounting are only featured by 108MI and 108MI-TB.

▪ **DIN Rail clip Installation**

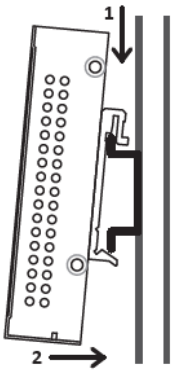
Fasten the DIN Rail clip to the device using a screwdriver and three screws. Each screw is flat head M3 x 5mm



▪ **DIN Rail Mounting**

STEP 1: Hook the unit over the DIN Rail.

STEP 2: Push the bottom of the unit toward the DIN Rail until it snaps into place.

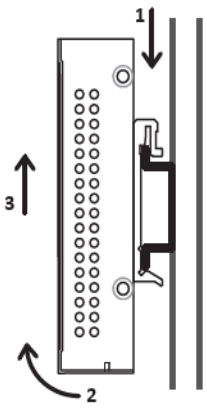


▪ **DIN Rail Removal**

STEP 1: Push the unit down to free the bottom of the DIN Rail.

STEP 2: Rotate the bottom of the unit away from the DIN Rail.

STEP 3: Unhook the top of the unit from DIN Rail.



⚠ ATTENTION: Safety Warning

- Disconnect all power from devices before attempting installation.
- This device is intended for installation only in restricted access locations as defined where both these conditions apply:
- Access is through the use of a lock or tool and key, or other means of security, and is controlled by the authority responsible for the location.
- Access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.
- All electric installations must be carried out in accordance with local and national regulations.
- Do not work on the system, connect or disconnect cables during periods of lightning activity.
- The equipment must be connected to earth.
- Shield of RJ45 cables has to be connected to the same earth potential as the equipment.
- Please remove the ground connection lastly if you need to remove the device after installation.
- If the LINE interface is used for the connection between two buildings, all necessary protective measures must be ensured externally.
- This equipment relies on the building's installation for short-circuit (overcurrent) protection. Ensure that a fuse or circuit breaker no larger than 1A is used.

NOTE

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