

Advance Industrial Media Convertor / Switch – A-MC-I and A-ES-I Series

Installation

Advance Industrial media converters and switches are plug-and-play devices that require no user configuration to enable operation.

1. Mount the device on a DIN rail: Hook the top of the mount over the rail and press firmly down on the device to compress the internal spring and press the bottom of the device to engage the mount with the rail. To remove the device from a rail, press firmly down on the device and pull the bottom of the device away from the rail.
2. Connect the power supply: Ensure your power supply suits the device type. 9~36V DC for non-PoE enabled devices and 48~52V DC for PoE and PoE+ enabled devices. Each device has a dual power input enabling redundant power inputs. The primary input is labelled PWR1, and secondary is labelled PWR2. Ensure the positive DC cable is connected to the V+ terminal, and negative DC cable is connected to the V- terminal.
3. Optional. Connect the alarm: The device has an alarm that allows for alerts to be generated when power fails and switches to a redundant supply. The alarm contact is normally closed and switches to open upon an event. The alarm contacts can be connected to a suitable siren, light or other device to indicate when the alarm is active.
4. Connect the fibre port(s): Each device uses SFP modules to enable communication over fibre optic cables. Select a suitable SFP module for the device and ensure it is orientated with the clasp/latch facing the top of the switch and press firmly into the FX1 port. Devices with more than one SFP port will be labelled FX2, FX3, FX4 on respective ports. Devices with more than two SFP ports require the SFP module to be orientated with the clasp/latch facing downwards for bottom SFP ports.
5. Connect the copper port(s): Each device features one or more RJ-45 copper ports supporting 10/100Base-T or 10/100/1000Base-T depending on model. 802.3af PoE (15.4W) or 802.3at PoE+ (30W) support is also available depending on model. Insert a suitable Cat5e or better cable into a port and ensure the clip engages to hold the cable in place.

Troubleshooting

There is no power being delivered to the device.

- > Ensure the power supply is correctly connected, ensuring DC V+ and V- are correct. Normally the V+ cable core is marked with dashes, or is red in colour. V- is normally unmarked and solid black.
- > Ensure you have connected a suitable DC power supply, note that PoE devices require 48-52VDC.

There is no network connection.

- > Ensure the patch cables are inserted correctly into the SFPs in the FX port(s) and to the host device.
- > Ensure the SFP module is inserted correctly into the FX port(s).
- > Ensure the fibre cable used in each SFP module matches the module type, for example 9/125 OS1/OS2 fibre with a singlemode SFP, and OM1, OM2, OM3 or OM4 fibre with a multimode SFP.
- > Ensure the copper Cat5e or better cable is connected firmly to the RJ-45 port and the cable latch has engaged.

There is no PoE/PoE+.

- > Ensure the device connecting to the switch is PoE/PoE+ enabled and the port on the switch meets the device's requirements – PoE supports up to 15.4W and PoE+ supports up to 30W devices.
- > Ensure you have connected a suitable DC power supply, 48-52VDC.



WARNING – NEVER LOOK DIRECTLY INTO AN ACTIVE FIBRE OPTIC PORT

