

Media Converter Chassis Unit

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Product User Guide

Introduction

This Tyco Electronics/AMPNetconnect rack-mountable chassis unit enables the 10/100Mbit/s and Gigabit Ethernet media converters to be easily located in a robust enclosure for use within equipment rooms and wiring closets. The chassis can be used in standalone or 19" rackmount environments. With dual-redundant AC power units and support for hot-swappable media converters, this chassis unit provides an ideal concentration point for fibre services.

Package Contents

Unpack the contents and verify them against the items below.

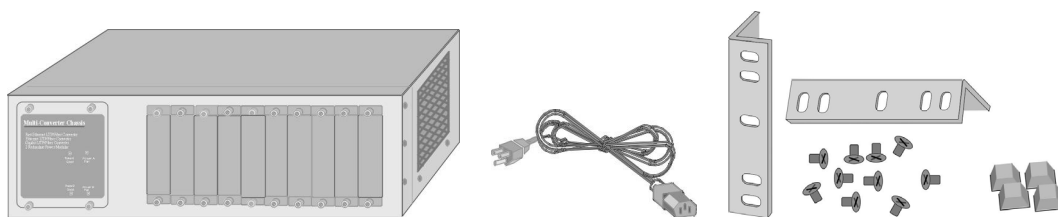


Figure 1 – Items in the packing box

If any item is damaged or missing, please contact your dealer. The items are:-

- 1 x Chassis with 1 power unit
- 1 x AC power cable
- 4 x Adhesive rubber feet
- 2 x Side-mounting brackets
- 10 x Small securing screws
- 4 x Large rack-mount bolts

Features

- Supports up to 10 of the Ethernet Media Converters
- Supports any mix of 10/100Mbit/s and Gigabit converters
- Supports hot-swapping of media converters
- Dual-redundant power working when a second AC power unit is fitted (part number 0-1591022-0)
- Supplied with one AC power unit
- Power units are accessed from the front without needing to gain access to the rear of the unit
- 2 LEDs on each power unit signal the PSU status
- Wide operating AC voltage range (100v ~ 240v AC)
- Stand-alone or mountable in 19" racks
- FCC Class A, CE mark certification

Technical Support and Service

If you require technical advice for these products, please see the FAQ pages on the web address <http://www.lan-electronics.com>

If you still have problems, please contact us using the support form located on the above web site.

If you have a faulty unit then please contact us through the web site to arrange for a replacement unit. The faulty unit must be returned to us as part of the replacement agreement.

Front Panel

All the converters and the power units are accessed from the front panel of the chassis unit. This enables the user to easily see all the status LEDs for the system. The chassis can be fitted with the side-mount brackets to either side of the front panel to secure the unit into a 19" rack system.

Rear Panel

The rear panel contains the IEC style AC power socket, the power on/off switch and the ventilation fan.

Installing the Chassis

1. Align a side-mount bracket with the holes on one side of the chassis and secure the bracket with 5 of the small screws. Fit the other bracket to the chassis in the same manner.



Figure 2 - Fitting the side-mount brackets

2. Ensure that there is adequate ventilation around the chassis. Allow at least 100mm at the rear of the chassis.
3. Locate the chassis into the 19" rack environment by identifying the required location and fitting the captive cage nuts into the correct locations in the rack sections.
4. Carefully locate the chassis into the 19" rack and fit 2 of the large rack-mounting bolts through each side-bracket to secure the chassis to the captive cage nuts.
5. Fit the AC power cord to the power connector on the rear of the chassis.

Installing Media Converters into the Chassis

Follow the steps below to install converters into the chassis:-

1. Remove the blank plate from the chassis using a screwdriver. Put the blank plate aside.
2. Open the rackmount bracket kit supplied with the media converter that contains two rackmount brackets with thumbscrews and four securing screws.
3. Attach a rackmount bracket on both sides of the media converter using a screwdriver.

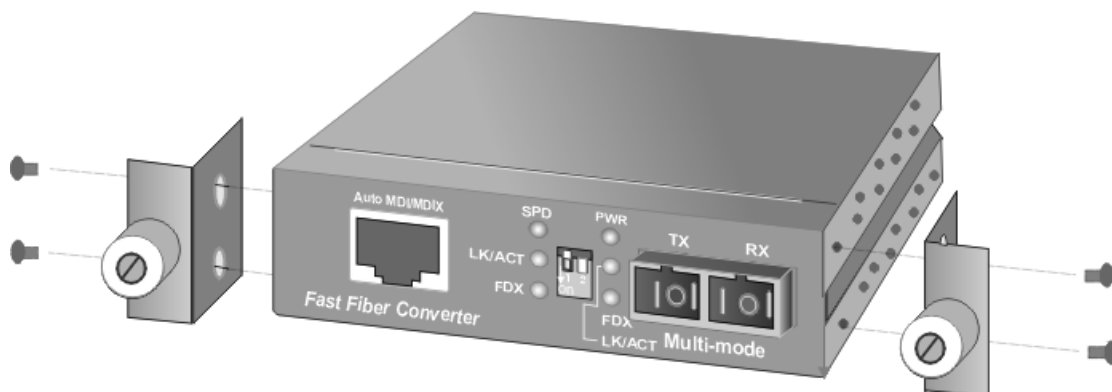


Figure 3 - Fitting the rack-mount brackets

4. Install the converter by inserting it into the chassis guides and carefully sliding it in until the converter is fully located.

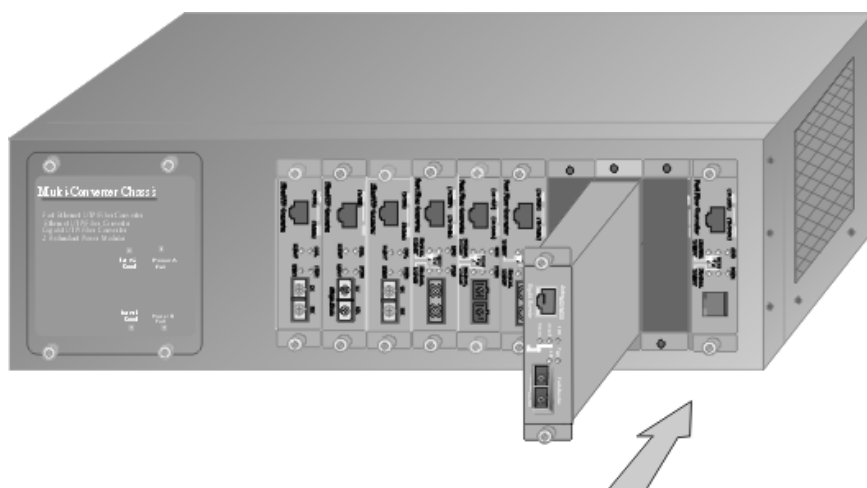


Figure 4 - Inserting the media converter into the chassis

5. Gently push the thumbscrews in and gently turn clockwise to tighten.

Replacing or Adding Power Units

Chassis power units can be hot-swapped when required. In addition, a second AC power unit (part number 0-1591022-0) can be added to enable the chassis to operate in a dual-redundant mode.

1. Remove the 4 knurled screws retaining the power panel at the left-hand side of the chassis.
2. Remove the power unit by gently pulling the folding handle.
3. Insert the new power unit by plugging it into either the top or bottom sections of the power bay.
4. Replace the power panel.
5. Ensure that the Power LED indications are correct.

Power LED Indicators

There are 4 diagnostic LEDs visible on the front panel of the chassis, two for each power unit. These LEDs are located behind the removable cover on the left-hand side of the chassis and provide real-time information of power supply unit (PSU) status. The following table provides a description of the LED status and meaning.

LED	Color	Function
Power A Good	Green	AC Power on
	Brief Flash	No converters fitted in chassis
	Off	AC Power off or no PSU present or no converters fitted in the chassis.
Power A Fail	Orange	Power Unit A Faulty
Power B Good	Green	AC Power on
	Brief Flash	No converters fitted in chassis
	Off	AC Power off or no PSU present or no converters fitted in the chassis.
Power B Fail	Orange	Power Unit B Faulty

Table 1 - LED Status and description

Trouble Shooting

Power

1. If the Power Good LED briefly flashes at a slow rate or does not light, then ensure that there is at least 1 media converter plugged into the chassis unit. The AC power units need to have a minimum load to operate correctly.
2. If the ventilation fan at the rear of the chassis does not work, then ensure that there is at least 1 media converter plugged into the chassis unit. The AC power units need to have a minimum load to operate correctly and activate the fan.
3. If there is no LEDs lit on the chassis, then ensure that the AC power cord is securely connected to the AC inlet on the rear of the chassis. If power is applied but the chassis does not operate, then check the fuse located in a small slide-tray in the AC inlet connector. This 20mm fuse should be rated at 6.3A, anti-surge. A spare fuse is fitted in this slide-tray.

If you still have problems and need further advice, please see Technical Support section on page 2 to obtain more information.

Product Specification

Units Supported	Up to 10 of 10/100Mbit/s Media Converters or Gigabit Media Converters
LED Indicators	Power A Good, Power A Fail Power B Good, Power B Fail
Dimensions	266mm x 440mm x 133mm (L x W x H)
Weight	5kg
Op. Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	10% to 90% (Non-condensing)
Power Units	Fitted with 1 x 90W plug-in PSU
Power Mode	Hot-swappable, dual-redundant mode
Fusing	In power inlet 6.3A, slow blow
Power Supply	100v ~ 240v AC 50/60Hz
EMI	FCC Class A, CE Mark
Safety	CE Mark, UL

Table 2 - Product Specifications