

PSE / PoE Gigabit Fiber Power over Ethernet Media Converter - Open SFP

ET1110PSE



*actual product may vary from photos

DE: Bedienungsanleitung - de.startech.com

FR: Guide de l'utilisateur - fr.startech.com

ES: Guía del usuario - es.startech.com

IT: Guida per l'uso - it.startech.com

NL: Gebruiksaanwijzing - nl.startech.com

PT: Guia do usuário - pt.startech.com

For the most up-to-date information, please visit: www.startech.com

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols

This manual may make reference to trademarks, registered trademarks, and other protected names and/or symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders.

Table of Contents

Introduction	1
Packaging Contents	1
System Requirements.....	1
Installation	2
Software Installation.....	3
Configuration Diagram	4
Operation	5
Front Panel Pushbuttons	5
Keyboard Hotkeys.....	5
KVM Switcher Software.....	6
Specifications	9
Technical Support	10
Warranty Information	10

Introduction

The ET1110PSE PSE / PoE Gigabit Fiber Power over Ethernet Media Converter with Open SFP creates an Ethernet-Fiber link, transparently converting from 10/100/1000Base-T copper to 1000Base-SX/LX fiber, while acting as a Power Sourcing Equipment (PSE) device. The PoE media converter offers the added flexibility of an open SFP slot, allowing you to choose the gigabit SFP that best suits your network requirements for fiber connection type and distance - see full line of compatible Gigabit transceivers for this product at StarTech.com Accessories.

The open SFP media converter is capable of delivering up to 48V DC power to IEEE 802.3af devices such as wireless access points (WAP) or IP cameras, using standard Cat 5 (or better) cabling - an ideal solution for providing data and power to areas where electrical wall outlets may not be available, saving the hassle and expense of running new electrical wiring.

Backed by a StarTech.com 2-year warranty and free lifetime technical support.

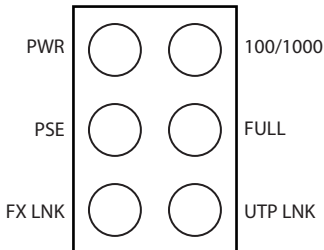
Packaging Contents

- 1 x PSE/PoE Fiber Media Converter
- 1 x Universal Power Adapter (NA/EU/UK)
- 1 x Instruction Manual

System Requirements

- Fiber, Gigabit, or 10/100 Mbps compatible network

LED Indicators



LED	Function	State	Status
PWR	Converter Power	ON	Power on
		OFF	Power off
PSE	PSE Status	ON	PSE power in-use
		OFF	PSE standby
FX LNK	Fiber link Status	ON	Fiber link is ok
		OFF	No Fiber link
100/1000	LAN Speed Status	Orange	1000Mbps
		Green	100Mbps
		OFF	10Mbps
FULL	LAN Duplex mode	ON	Full duplex
		OFF	Half duplex
UTP LNK	UTP link status	ON	UTP link is ok
		OFF	No UTP link

DIP Switch Setting

The ET1110PSE is provisioned through the use of a single 4-pole DIP (Dual Inline Package) switch located on the front panel. Setting a switch down places it in the ON position.

Switches 1&2: provide setting auto-negotiation (Nway) or manual forced speed of 10, 100 or 1000. Default is all OFF.

Switch 3: when ON (down), sets the forced Half Duplex for either 10Base or 100Base, or sets Full Duplex when OFF (up).

Switch 4: is used to enable the LFP (Link Fault Pass-Thru) function. LFP is enabled when the switch is ON (down).

DIP Setting				
ON "▼" OFF "▲"	1	2	3	4
UTP/NWAY	▲	▲	▲	I G N O R E
1000/FULL	▼	▲	▲	
100/FULL	▲	▼	▲	
100/HALF	▲	▼	▼	
10/FULL	▼	▼	▲	
10/HALF	▼	▼	▼	
LFP ON	I G N O R E			



Installation

1. Insert a compatible SFP Gigabit module into the open SFP slot
2. Connect the power supply to the Fiber Media Converter
3. Connect the appropriately terminated Fiber cable to the Fiber Tx/Rx port
4. Connect the other end of the fiber cable into the router/switch/computer NIC/ another media converter (Remember to reverse the TX and RX leads between the two devices)
5. Connect an Ethernet patch cable to the Fiber Media Converter "LAN" port
6. Connect the other end of the Ethernet patch cable to your endpoint device

Central Office (CO)



Customer Premise Equipment (CPE)



Link-Fault-Pass Through (LFP) Note

This media converter incorporates a fiber link pass through feature which allows indirect sensing of a fiber link loss via 10/100/1000 Base-TX UTP connection. Whenever the media converter detects a link loss condition on the receive fiber (FX LNK Off), it disables its UTP transmitter so that a link loss condition is sensed on the receive UTP port. (See the following figure) The link loss can then be sensed and reported by network management agent at the remote UTP port's host equipment.

The LFP feature has no effect on the media converter's UTP Link LED, which continues to function normally, independent of the state of the fiber LNK LED and the UTP transmitter. This feature is disabled by default from the factory.

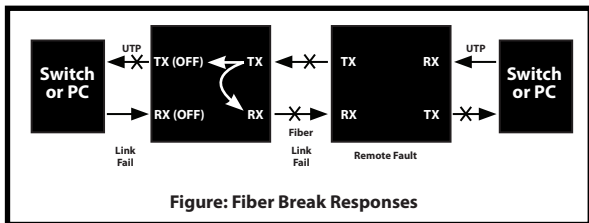


Figure: Fiber Break Responses

Specifications

Connectors	1 x RJ45 Ethernet 1 x SFP slot 1 x DC Jack power connector
Power Output	48V DC @ 15.4W Supported
Transmission Standards	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3z 1000BASE-SX IEEE802.3af PoE IEEE802.3x Flow Control
Duplex Modes	Full/Half Duplex Ethernet mode
Dimensions	145mm x 65mm x 35mm
Weight	600g
Note	Fiber data transfer speeds and distances are dependant on the SFP used (sold seperately)

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit www.startech.com/downloads

Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.

StarTech.com is your one-stop source for every connectivity part you need. From the latest technology to legacy products — and all the parts that bridge the old and new — we can help you find the parts that connect your solutions.

We make it easy to locate the parts, and we quickly deliver them wherever they need to go. Just talk to one of our tech advisors or visit our website. You'll be connected to the products you need in no time.

Visit www.startech.com for complete information on all StarTech.com products and to access exclusive resources and time-saving tools.

StarTech.com is an ISO 9001 Registered manufacturer of connectivity and technology parts. StarTech.com was founded in 1985 and has operations in the United States, Canada, the United Kingdom and Taiwan servicing a worldwide market.