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IFS POE302-SP Ethernet Splitter User Manual

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Manufacturer UTC Fire & Security Americas Corporation, Inc. 2955 Red Hill Avenue, Costa Mesa, CA 92626-5923, USA

Version This document applies to IFS POE302-SP Ethernet Splitter version 1.0.

Certification CE N4131

FCC compliance **Class A:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

ACMA compliance **Notice!** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Union directives **2004/108/EC (EMC directive)**: Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC

2002/96/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

Contact information	www.utcfireandsecurity.com or www.interlogix.com
Customer support	www.interlogix.com/customer-support

Contents

Package Contents

Thank you for purchasing the IFS POE302-SP Gigabit High Power over Ethernet (IEEE 802.3at) Splitter.

Open the package containing the Ethernet Splitter and carefully unpack it. The box should contain the following items:

- IFS POE302-SP x1
- User Manual x1
- 6 inch (15cm) UTP Straight Network Cable x1
- DC Plug Cable x 2

If any of these items are missing or damaged, please contact your distributor or IFS Sales Rep. If possible, retain original carton and packaging material, and use them again to repack the product in case there is a need to return it to us for repair.

Product Features

Interface

- 2-Port RJ-45 interfaces
- 1-Port PoE Power+ Data input
- 1-Port Data output
- 1 DC out plug connector

PoE

- Complies with IEEE 802.3at Power over Ethernet PD
- Splits the 56V DC power over RJ-45 Ethernet cable into 12V/24V DC output
- Up to 1 non-IEEE 802.3at devices powered

- Auto-detect of PoE IEEE 802.3at equipment protects devices from being damaged by incorrect installation
- Two adjustable output voltage options (12VDC/2A, 24VDC/1A) to fit various device power requirements
- Distance of up to 100 meters

Hardware

- Metal case
- 12V / 24V DIP switch
- PoE Power in LED indicator

Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3at Power over Ethernet standard
- FCC Part 15 Class A, CE

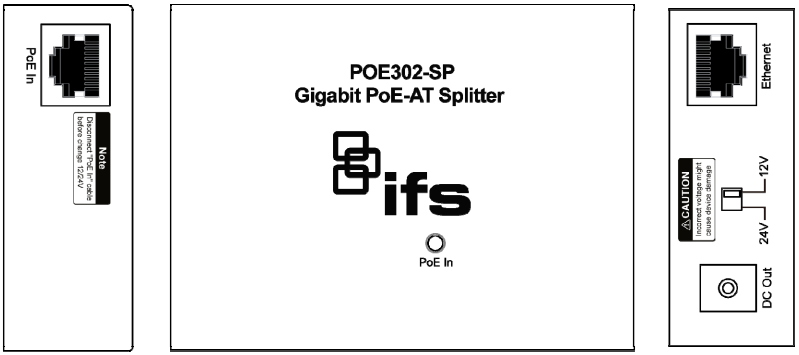
Note: PSE (Power Sourcing Equipment) is a device (eg. switch or injector) that provides PoE power. Maximum allowed continuous output power for a PSE device per IEEE 802.3at is 30 watts.

PD (Powered Device) is an Ethernet device powered by PoE supplied by the PSE such as IP cameras, access control panels, VoIP phones and Wireless access points (WAP), etc.

Product Overview

Figure 1 shows the front and side panels of the POE302-SP.

Figure 1: POE302-SP Front and Side Panels



LED Indicator

POE302-SP LED indicator

LED	Color	Function
PoE In	**Green**	Steady on indicates the unit is receiving 56VDC PoE in-line power.

Hardware Installation

The POE302-SP operates at three different data rates - 10Mbps, 100Mbps and 1000Mbps. The unit adjusts automatically to the incoming data rate.

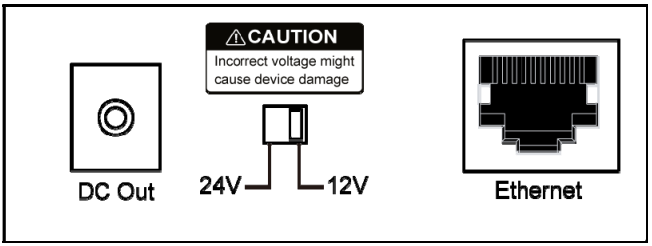
The following section describes the hardware features of the POE302-SP. Carefully read this section before connecting any network device to this unit.

Before Installation

The POE302-SP separates data and power and provides two DC power output options via a DIP switch.The two power options are shown below.

- 12VDC/2A
- 24VDC/1A

Figure 2: Voltage output



The default switch setting is 12V.

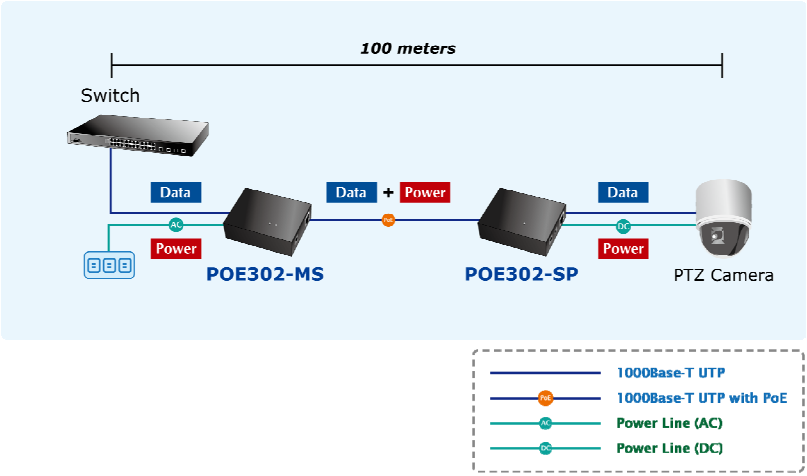
Note: Please check the power requirements of the device that will be receiving its power from the POE302-SP. If the power requirements (voltage and current) exceed the power output that the POE302-SP can supply, a built-in current overload circuit will shutdown the POE302-SP to protect it from damage. Power will then not be supplied to the connected device.

PoE Injector and Splitter Installation

The POE302-MS (PSE) and the POE302-SP (PD) can be installed in pairs. However, use of third-party devices is allowed only if the device complies with the IEEE 802.3at Power over Ethernet standard.

1. Connect a standard network cable from "Ethernet+DC" port of POE302-MS to "PoE In" port of POE302-SP. The POE LED of POE302-SP / POE302-MS will be constantly on.

Figure 3: Connection Schematic



WARNING: The POE302-SP only accepts IEEE 802.3at equipment; other in-line power device may cause the POE302-SP malfunction.

2. Connect the UTP cable in the package from "Ethernet" port of POE302-SP to the RJ-45 port of remote device.
3. Adjust proper DC power output and connect DC plug from "DC OUT" of POE302-SP to remote device.

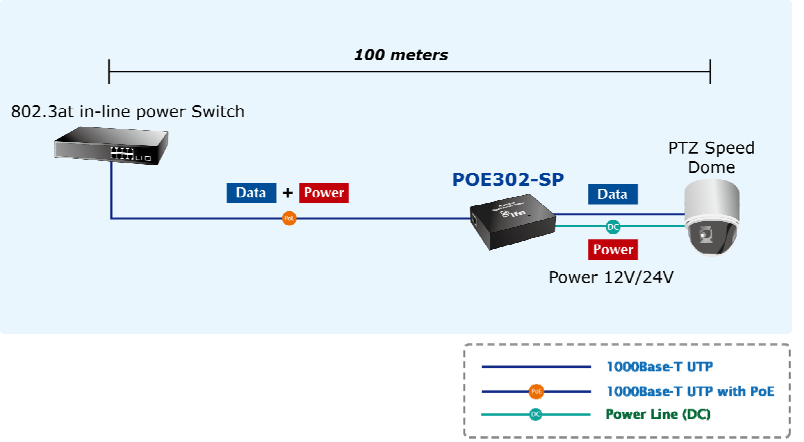
Caution: Please ensure the output voltage is correct for remote device. Otherwise, it will damage your remote device.

4. Power on the remote device and its LED indicator will remains on.

Connecting with other 802.3at Devices

The POE302-SP also provide the alternative to make the non IEEE 802.3at devices the possibility to connect with an IEEE 802.3at in-line power device like Power over Ethernet Injector or Power over Ethernet Switch, the figure is as below.

Figure 4: Voltage output



Note: With IEEE 802.3at Power over Ethernet; the POE302-SP also can co-work with the IEEE 802.3at End-Span High Power over Ethernet Switch that is feeding power over pin 1, 2, and 3, 6.

Specifications

POE302-SP Specifications

Product		POE302-SP
Hardware Specification		
Interface	“Data” Out Port	1 x RJ-45 STP
	“PoE (Power + Data)” Input Port	1 x RJ-45 STP
	DC Out Plug Connector	1
LED Indicator		System: PoE In x 1 (Green)
Network Cable		10Base-T: 2-Pair UTP Cat. 3, 4, 5, up to 100m (328ft) 100Base-TX: 2-Pair UTP Ca5, 5e, & 6 up to 100m (328ft) 1000Base-T: 2-Pair UTP Cat. 5, 5e, 6 up to 100m (328ft) EIA/TIA- 568 100-ohm STP (100m)
Data Rate		10/100/1000Mbps (vary on Ethernet device attached)
DIP Switch		12V DC / 24V DC output voltage
Dimension (W x D x H)		3.75 X 2.75 X 1.0 in (95 X 70 X25 mm)
Weight		.25 lbs (111g)
Number of device can be powered		1
Operating Temperature		0 ~ 50 Degree C
Storage Temperature		-10 ~ 70 Degree C
Humidity		5 ~ 90% (Non-condensing)
Power over Ethernet		
PoE Standard		IEEE 802.3at High Power over Ethernet / PD
Standards Conformance		
Standards Compliance		IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3at Power over Ethernet
Regulation Compliance		FCC Part 15 Class A, CE

Contacting Technical Support

Contact technical support if you encounter any difficulties during this installation. Please make sure you have the requested diagnostic or log files ready before you contact us by phone or go to www.interlogix.com/customer-support.

Technical Support

Europe, Middle East and Africa	
W	Select *Contact Us* at www.utcfssecurityproducts.eu
North America	
T	+1 855.286.8889
E	techsupport@interlogix.com
Australia	
E	techsupport@interlogix.au