UTC Fire & Security
A United Technologies Company

Product Data Sheet

POE201-EX

PoE and Ethernet Data Extender

Overview

The IFS Power over Ethernet Extender is a quick and easy solution that can be used when a Powered Device (PD) needs to be installed beyond the 100 meter (328 ft.) distance limitation of Ethernet. The module can be powered from any network switch with PoE or from an IFS MS-PoE Mid-Span Power Injector.

This module provides the ability to extend Ethernet data and PoE power on a single network cable for remote deployment of an Ethernet powered device (PD) i.e. IP camera, access control panel, VoIP or wireless access point (WAP).

The IFS POE201-EX is powered via the PoE power provided by a PoE switch or injector and thus does not require an external power adapter. Each extender requires just two watts of PoE power providing the remaining power to the next extender or PD device.

Up to three POE201-EX extenders can be daisy-chained at 328 ft. (100m) intervals, based on the EIA-568 standard, to extend Ethernet data and PoE power up to 984 ft. (300m). Maximum distance (or hops) is dependent upon the remaining PoE power available to meet the PD power requirements.

The POE201-EX facilitates easier network planning by eliminating restrictions of edge device placement near AC power outlets and reducing the need for AC wiring and installation costs while delivering higher reliability. This results in a cost-effective remote power and data distribution cable management solution for a PoE-centric IP network.

Standard Features

- Plug-and-play PoE self-powered design
- Can be used with an IFS PoE Injector or other IEEE 802.3af compliant PSE equipment
- Supports 10/100Base-TX Ethernet
- Auto-detect of PoE IEEE 802.3af equipment providing protection from incorrect installation
- Current overload detection
- LED Indicators for PoE In, PoE Out, Data
- Can be daisy-chained to extend data and PoE on a single network cable a maximum of 984 ft. (300m).

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Specifications

Ethernet

- Data Rate 10/100Mbps
- Throughput (packet per second) 148810pps@64Bytes
- IEEE Standards IEEE 802.3 Ethernet / IEEE 802.3u Fast Ethernet / IEEE 802.3x Flow Control
- Latency 7.840micros
- Maximum Frame Size 1552 Bytes
- EIA/TIA-568 Standards Category 5/5e cable

Power Over Ethernet (PoE)

- PoE Standard IEEE 802.3af Power over Ethernet PSE / Mid-Span / IEEE 802.2af Power over Ethernet PD / Mid-Span
- PoE Power Supply Type Mid-Span / Type B (No external power adapter required)
- PoE Output Pin Assignment 4/5(+), 7/8(-)
- PoE Output Power with Multiple Extenders Class 1 (3.8 watts) 300m / Class 2 (6.5 watts) 300m / Class 3 (12.9 watts) 200m / Non-PoE (Data Only) 300m

Connectors & Indicators

- Ethernet + PoE In 1 x RJ-45 connector (10/100Base-TX & 802.3af PD Mid-Span)
- Ethernet + PoE Out 1 x RJ-45 connector (10/100Base TX & 802.3af PSE Mid-Span)
- LED Indicator 1 PoE In, 1 PoE Out , 1 Data LNK/ACT

Electrical & Mechanical

- Input Power Powered by 48VDC from PoE Switch or Mid-Span Injector @ IEEE 802.3af
- PoE Output Power 48VDC @ 270mA, 13 watts
- Maximum Powered Devices 1
- Enclosure Metal
- Dimensions (W x D x H) 3.7 x 2.75 x 1 in. (94 x 70 x 26mm)
- Weight 0.47 lbs/215g
- Power consumption 2 watts from PoE uplink

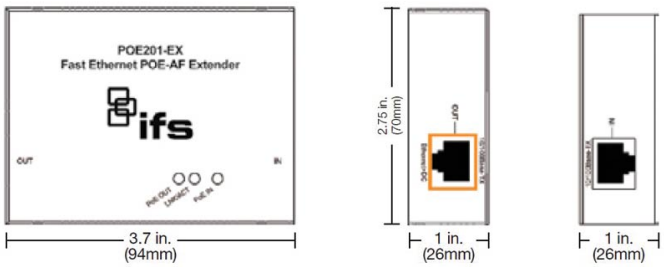
Environmental

- MTBF >50,000 hrs. @ 25°C
- Operating Temperature 0° ~ 50°C
- Storage Temperature -20° ~ 70°C
- Relative Humidity 5% ~ 90% (non-condensing)

Standards Compliance

- Regulatory FCC Part 15 Class A, CE
- EMI EN 55022 CLASS A / EN61000-3-2 / EN61000-3-3
- EMS EN 55024 / IEC 61000-4-2 / IEC 61000-4-3 / IEC 61000-4-4 / IEC 61000-4-5 / IEC 61000-4-6 / IEC 61000-4-8 / IEC 61000-4-11 / IEC/EN 60950-1

Diagram



Ordering Information

POE201-EX

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