



NOVASOM
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Embedded Systems

PoE Adapter

SKILLS AND TARGET MARKET

Novasom Industries PoE Adapters are fully compatible with any SBC.

We are industrial oriented, and considering the amount and the kind of toy PoE adapters we have seen and tested on the market, for consideration in our SBC applications, we felt **we needed something more** to properly power our industrial devices, where **the 24/7/365 mission profile is a must**, and is only the starting point.

Our new class of PoE PD adapter has been developed thinking to these needs, giving you a warranted rugged solution you can use to power your devices.

Perfect to be used with your Novasom board!



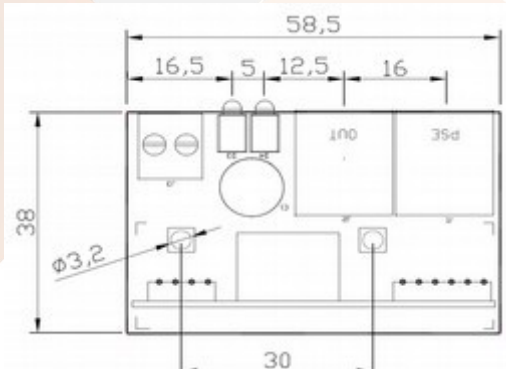
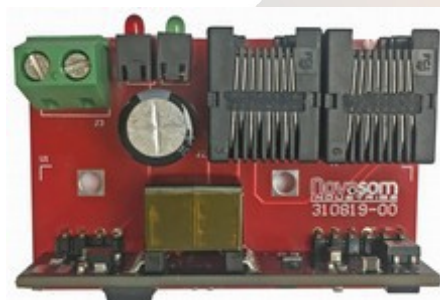
UNIQUE SELLING POINT

- 15 and 30W power class
- Normal temperature range (0°C; + 70°C) for both solutions
- Extended temperature (-40°C; +85°C) for the 15W module with conformal coating
- Industrial mission profile 24/7/365 @ full load
- Two modules, two different kind of solutions
- Fully Certified, CE and FCC
- Longevity program

Visit www.novasomindustries.com for details



UP TO 5 YEARS TOTAL WARRANTY
5/10 YEARS LIFETIME AVAILABILITY
ONLY INDUSTRIAL COMPONENTS
FOR ANY APPLICATION



we have

SOLUTION

for you



PRODUCT DESCRIPTION

The Novasom PoE adapters are a class of POE PD devices designed to the IEEE802.2AX standard, while adding more features to this standard to allow a long lifetime in an industrial environment.

These products are industrially designed, considering a 24/7/365 mission profile, an extended temperature range -40 +85°C and critical EMC conditions to assure a long life without effort.

Moreover, the Novasom PoE adapters have been designed considering the real installation issues (situations where errors and wrong cabling may happen) and we have taken care of “the module and the people”. We have designed the device to protect the unit and its load from an irremediable damage, as well as the operator.

2 levels of power (15W and 30W) with load sensing, offers a wide range of use. Normal and extended temperature ranges are available (15W only).

The units are spike and surge protected from the input lane, as well as isolation and overload-short circuit protection from the load side.

STANDARD PRODUCTS

Available PoE Modules

Following versions are available:

- **N.POE-15WC-310819:**
15 W module standard temp range (0°C; +70°C)
- **N.POE-30WC-310819:**
30 W module standard temp range (0°C; +70°C)
- **N.POE-15WI-310819:**
15 W module extended temp range (-40°C; +85°C)

PoE input stage with:

- Reverse polarity protected - for indefinite time
- Spike and surge protected - 15kV-400W @1ms with self-resetting fuse in 250 ms
- RJ45 “ any connector IN &OUT” with pass through **relaunch** of the PoE power , that simplifies cabling (there is no in and out as the 2 RJ45s can be used in either way), and the PoE power is relaunched to the other to allow series cabling .
- 110-220AC protection for wiring errors, AC earth and DC ground plane separated and electrically connected with HF filter
- HF filtering to limit emission for CE-FCC compatibility
- “DC PoE power present” LED,
- RJ45 independent with *pass through technology*®- plug power and net relaunch where you want

Output stage with:

- Electrical insulation up to 1500 V
- Hardware tunable Vout from 10.5 to 14 V , 12V nominal
- High stability PWM in temperature, time, load
- Short circuit protection
- HF filtering
- “Load powered” LED
- Screw or lockable output connector