

# QuPoE AF-24V-SP - 802.3af/at converter to 24V 13W Passive PoE (mode B)

**QuPoE AF-24V-SP - This device has 2 applications: 1) 802.3af to 24V 13W active splitter, 2) 802.3af active to 24V 13W Passive PoE converter. Switching between this 2 modes is done using remove jumpers**

QuPoE AF-24V-SP splitter provides PoE and data output protection. It is compliant with the **IEEE802.3af standard** and has a work temperature range of -40...+80C. This small device has **lightning, surge, ESD, EFT protection** and is ideal for outdoor applications and powering gateway devices, routers, etc.

SIDAC Thyristor and High power TVS Diode provide protection against lightning and high surge. The device has overcurrent protection and short protection with auto restart.

**Based on high quality parts for working long life time.**



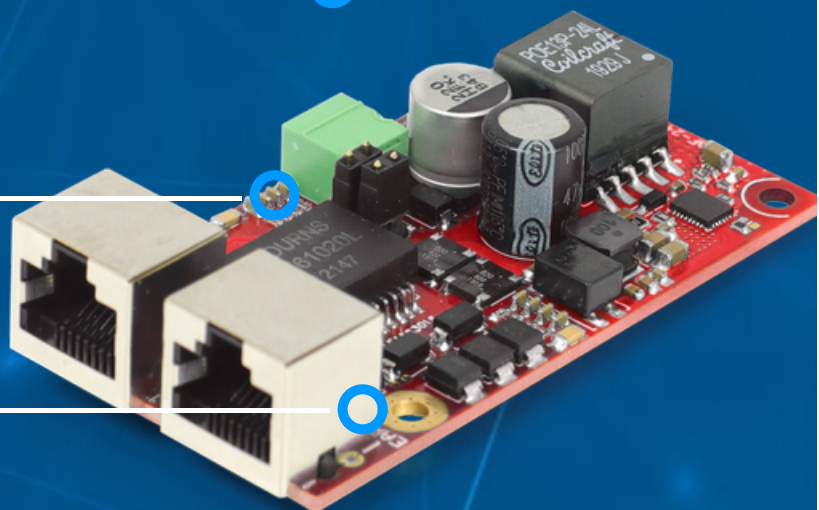
GIGABIT ETHERNET



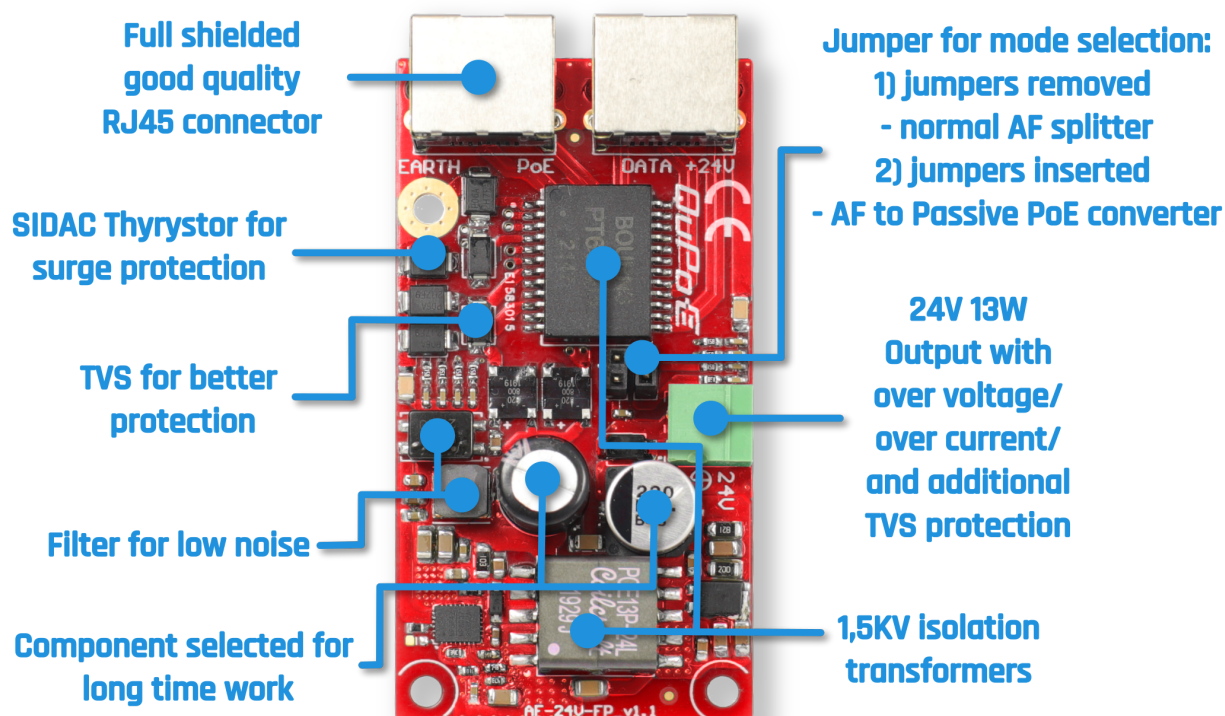
LIGHTNING/SURGE/ESD PROTECTION



MADE IN EUROPE



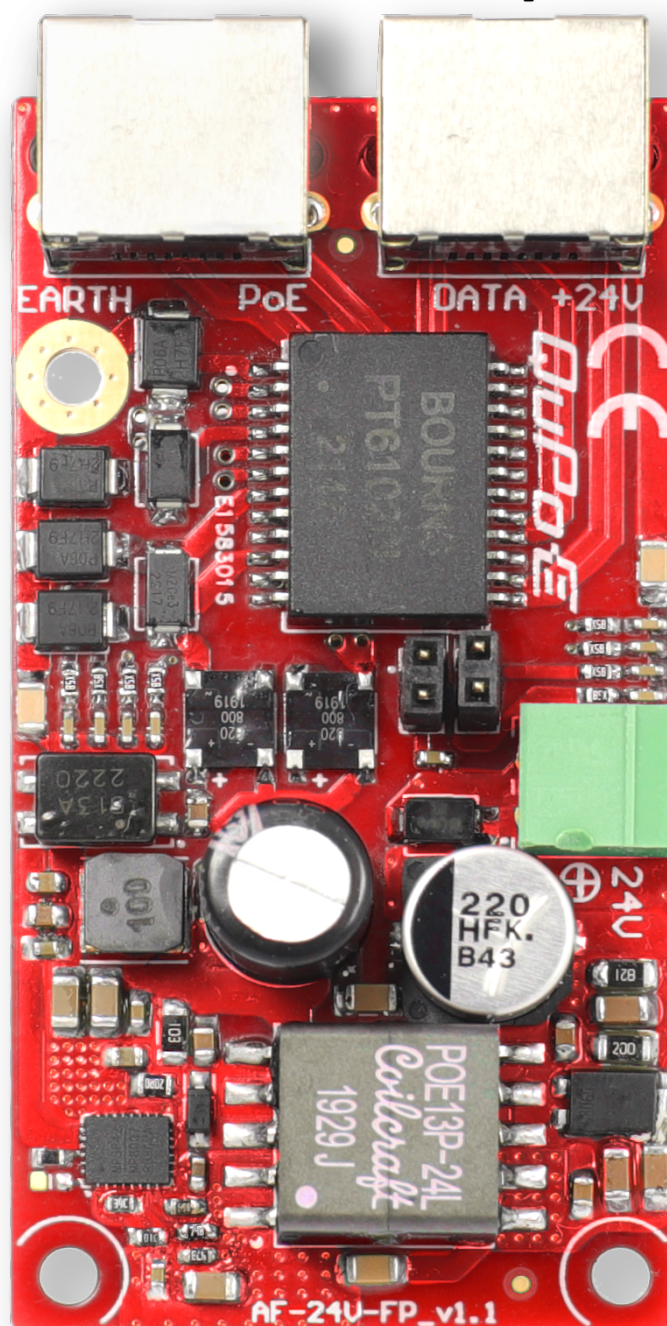
## SAFETY FEATURES



## PORTS

**DATA  
+  
802.af PoE**

**DATA  
or  
DATA+passive PoE 24V**



**+24VDC  
OUT  
13W**

## POE SPECIFICATION

### IEEE STANDARD

IEEE 802.3ab 1000Base-T Gigabit Ethernet  
IEEE 802.3af PoE (Power over Ethernet)

### POWER SUPPLY / POE IN

Powered from PoE in, IEEE802.3af/at  
38-58V, 30W max for PD\_802.3AT  
Supports both PoE A mode or B mode

### DC OUTPUT / PASSIVE POE OUTPUT

DC: 24V 13W  
Passive PoE 24V 13W (mode B)

### DATA OUT

RJ45 10/100/1000Base-T(X)

## MECHANICAL SPECIFICATION

### OPERATING TEMPERATURE

-40 ~ 80°C  
-40 ~ 176°F

### DIMENSIONS

78 x 40 x 17 mm  
3.07 x 1.57 x 0.67 inch

## PROTECTION

EN61000-4-2 (ESD)	Level 4 (8kV contact, 15kV Air), Criteria B
EN61000-4-3 (RS)	Level 3 (10V/m), Criteria A
EN61000-4-4 (EFT)	Level 4 (4kV), Criteria A
EN 61000-4-6 (CS)	Level 3, Criteria A or extended level
EN 61000-4-5 (SURGE)	Level 5 (min 2kV), Criteria B (Telecommunication cables) 2 kA 8/20 $\mu$ s 1 kA 10/350 $\mu$ s
GR-1089	YES
ITU-T K.20	YES
ITU-T K.21	YES
IEC60950-1	YES
EN62368-1	YES
LIGHTING/SURGE/ESD PROTECTION REQUIREMENTS	GDT elements, SIDAC Thyristor, High power TVS Diode and TVS Diode Array provide protection against lightning and High surge making the device ideal for outdoor applications and powering e.g. gateway devices, routers, etc...
ISOLATION REQUIREMENTS	The GDTs (Gas Discharge Tubes) are connected between the data pair (and not GD) to be compliant with the IEEE802.3 standard. A properly rated transformer provides the required isolation for IEEE 802.3 compliance.

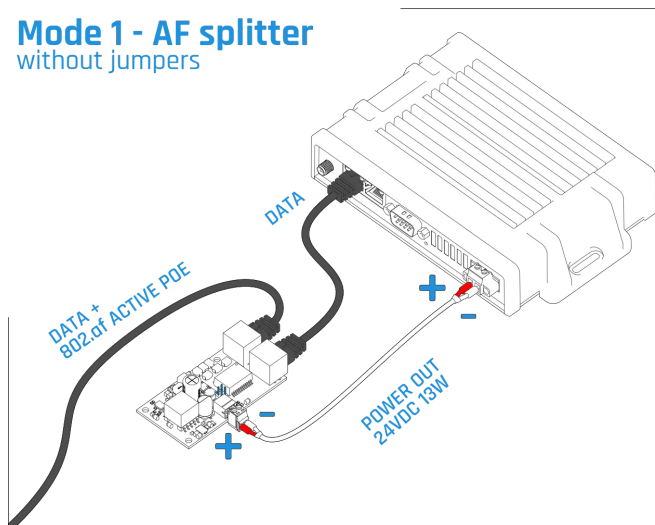


**POWER FAULT REQUIREMENTS**

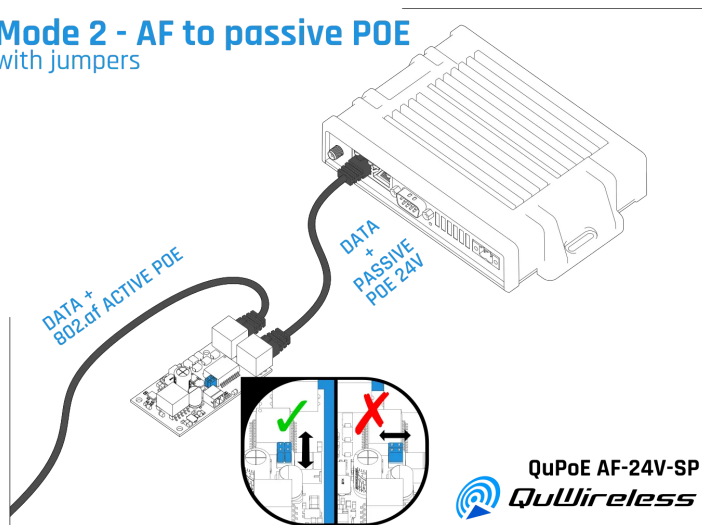
Series telecom fuses provide overcurrent protection that complies with the GR-1089, ITU K20/21, EN60950-1 power fault requirements.

## HOW TO CONNECT

### Mode 1 - AF splitter without jumpers



### Mode 2 - AF to passive POE with jumpers



QuPoE AF-24V-SP  
 **QuWireless**

