



ALLNET

ALL048605PD

4-Port PoE Gigabit Switch with PoE input

- 5 Port Gigabit Switch with 1 PD port and 4 PoE ports
- PD port gets powered by another PoE device via LT PoE or IEEE802.3af / at
- Each of the 4 PoE ports delivers max. 90 watt (depending on power)
- Optional: variable voltage input 12~48V/120W - the 4 PSE ports deliver max. 115 watt in total or max. 30 watt per port, or 56V/500W via external power supply
- Non-blocking & non-head-of-line blocking, full wire speed forwarding
- Temperature control and protection of board and voltage transformer

Art.-Nr. 113046

Note: Product specification is subject to change without notice

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The ALL048605PD is a 5 port gigabit switch with 4 PoE ports and one PD port.

The power supply of this device can be done by three different ways:

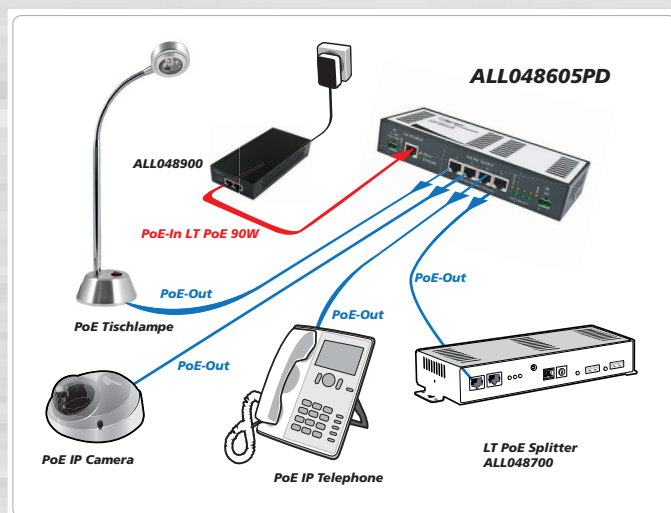
1. PD port via another PoE device or Injector (max. 90W).
2. Variable DC power input, with up to 90W (10s) and 60W output with permanent 12V input.
3. Fixed DC input with 56V and up to 500W.

Standards:	IEEE 802.3af, IEEE 802.3at IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3x Flow Control
Details:	Number of ports: 5 10/100/1000BaseT(X) 1x PD-port and 4x PoE-ports MAC addresses: 8K Buffer memory: 1Mbit Type: store-and-forward
Filtering/Forwarding Rates:	1000Mbps port – 1,488,000pps 100Mbps port – 148,800pps 10Mbps – 14,880pps
Connections:	10/100/1000BaseTX Cat5 UTP/STP, or better 8-wired CAT6
LEDs	Per port: ETH LINK/ACT, PoE PSE LINK, 1 LED per input
Power supply via PoE (PD-input)	PD-Port gets power from another PoE/PSE device 4 Ports share max. 85W or the voltage of the supplying device minus 5,5W own consumption.
Variable power supply from 12~48V (power supply, accu, solar, etc...) Attention: Voltage must be below 48V.	Optional: DC 12~48V with max. 120W 4 Ports share 115 watt, max. 30 watt per port
Power from external power supply	Optional: DC 56V with max. 500W 4 Ports share 360W, max. 90 watt output per PoE-port
Dimensions	196×79×34 mm (LxDxH)
Weight	0.35 kg
Temperature (operation)	0 - +40°C
Temperature (storage)	-20 - +90°C
Humidity	10 - 90% RH (non condensing)



Network connections

Please use only 8 core cables, because PoE and Gigabit works only with 8 core cables.



Optional: The switch can also be used with an external power supply. If you want to use 90 watt at each port the power supply should deliver a minimum of 370 watt. The switch itself needs 5,5 watt for operation.

If a 56V power supply is connected, it manages the power supply by itself. The PD and variable voltage connector work in load sharing to share the load. If one supply voltage fails, the load is instantaneously distributed to other connected power sources.

Function description

The ALL048605PD is a 5 port gigabit switch with 4 PoE ports and one PD port.

The power supply can be made by the following three methods:

- PD port via another PoE device or Injector (max. 90W).
- Variable DC power input, with up to 90W (10s) and 60W output with permanent 12V input.
- Fixed DC input with 56V and up to 500W, by external power supply

All 3 power supplies can be connected at the same time, this guarantees reliability through load sharing and redundancy. Please note, that the connected devices can only be supplied with the power supplied by the switch.

The max. power of 90 watt per port can only be supplied with an external 56V power supply.

When the maximum output is exceeded, the power supply is managed via port priority.

Port 1 has the highest priority. Port 4 has the lowest priority and will be shut down automatically to provide enough power for the remaining ports.



Overview of supported PoE standards and cable assignment

The ALL048605PD supports various PoE devices. The devices are scanned by the switch and will be automatically provided with the correct power.

The table shows an overview of all supported standards and power levels.

PoE Standard	Signatur	Paar 1+2	Paar 3+6	Paar 4+5	Paar 7+8	Leistung
IEEE802.3af	25kOhm	X	X			15W
IEEE802.3af	25kOhm			X	X	15W
IEEE802.3at	25kOhm	X	X			30W
IEEE802.3at	25kOhm			X	X	30W
IEEE802.3af	25kOhm	X	X	X	X	15W
IEEE802.3at	25kOhm	X	X	X	X	30W
LTPoE						
LTPoE++	25kOhm	X	X	X	X	45-90W
LTPoE++	25kOhm	X	X			60W
LTPoE++	25kOhm			X	X	60W
2x LTPoE++	2x 25kOhm	X	X	X	X	Max. 90W
LTPoE++	12kOhm	X	X	X	X	
Non-Standard						
2x IEEE802.3at	2x 25kOhm	X	X	X	X	2x 30W
IEEE802.3at	12kOhm	X	X	X	X	60W
IEEE802.3at	12kOhm	X	X			30W
IEEE802.3at	12kOhm			X	X	30W
2x IEEE802.3af	2x 25kOhm	X	X	X	X	2x 15W
IEEE802.3af	12kOhm	X	X	X	X	30W
IEEE802.3af	12kOhm	X	X			15W
IEEE802.3af	12kOhm			X	X	15W

