



ALL048605PD

**4 Port LT 90W PoE Gigabit Switch with
1 Port LT 90W PoE supply and
3 power options**



QIG

The box contains the following items:

- PoE+ Gigabit Switch
- Quick installation guide
- Plug for external power supply

Note: Please contact your sales partner if items are missed or damaged.

Features:

- 5 Port 10/100/1000M (Auto-Negotiation) Switch with one PD port and 4 PoE ports
- PD port gets power supply from another PoE device via LT PoE or IEEE802.3af / at
- Each of the 4 PoE ports delivers max. 90 watt

Optional: variable voltage input

12~48V/120W → the 4 PSE ports deliver max. 115 watt in total or max. 30 watt per port

Optional: 56V/500W external power supply → the 4 PSE ports deliver max. 90 watt per port

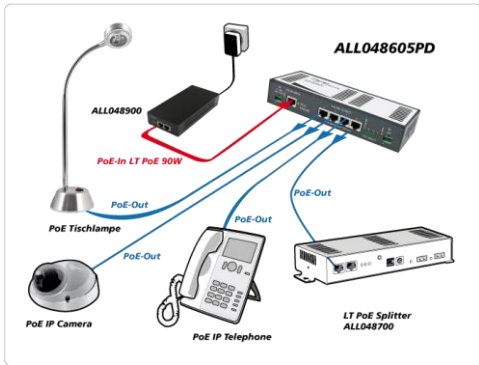
- Compact size, metal housing, fanless
- Auto-Detect, Full/Half-Duplex for each port (Auto-negotiation)
- Store-and-Forward
- IEEE 802.3x Flow Control for full-duplex and back-pressure flow control for half-duplex
- Non-blocking & non-head-of-line blocking, full wire speed forwarding
- Auto-MDI/MDI-X at all ports

Front (LEDs):

LED	Status	Description
Power (yellow)	On	Power supply active
	Off	No power
PD Gigabit Port	Yellow on	Connection via PD port
	Yellow off	No connection via PD port
	Green Flash	Data transmission
	Green- permanent	Network link active, but no data transmission.
12~48V variable input voltage- (yellow)	On	Power supply via this port active.
PSE Gigabit Ports 1~4	Yellow On	Connection via PD port
	Yellow Off	No connection via PD port
	Green Flash	Data transfer
	Green permanent	Network link active, but no data transmission
56V Input (yellow)	On	External 56V power supply connected and active.

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 powers 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 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.

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 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.

Connections:



Variable input
12 to 48V DC,
max 120W

Input via PoE device
with max 120W (PD port)

4x Gigabit PoE ports.
max. 90W per port,
priority from 1 to 4
descending

Input via 56V DC power
supply with max. 500W

Please check polarity of the plug, before connecting to external power supplies!

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	Pair 1+2	Pair 3+6	Pair 4+5	Pair 7+8	Power
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	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	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

Technical specifications:

Standards	IEEE 802.3af, IEEE 802.3at IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3x Flow Control
Features	Number of ports: 5 10/100/1000BaseT(X) : 1x PD-Port and 4x PoE-ports MAC addresses: 8K Buffer Memory: 1Mbit Broadcast:Store-and-Forward
Filtering/ Forwarding Rates	1000Mbps port – 1,488,000pps 100Mbps port – 148,800pps 10Mbps – 14,880pps
Speed	10/100/1000BaseTX
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.

<p>Variable power supply from 12~48V (power supply, accu, solar, etc...)</p> <p>Attention: Voltage must be below 48V.</p>	<p>Optional: DC 12~48V with max. 120W</p> <p>4 Ports share 115 watt, max. 30 watt per port</p>
<p>Power from external power supply</p>	<p>Optional: DC 56V with max. 500W</p> <p>4 Ports share 360W, max. 90 watt output per PoE-port</p>
<p>Dimensions</p>	<p>196 × 79 × 34 mm (L x T x H)</p>
<p>Weight</p>	<p>0.35 kg</p>
<p>Temperature (operation)</p>	<p>0 - 40°C</p>
<p>Temperature (storage)</p>	<p>-20 - 90°C</p>
<p>Humidity</p>	<p>10 - 90% RH (non condensing)</p>
<p>Certification</p>	<p>CE</p>

EC - Declaration of Conformity



for the following equipment:

ALL048605PD

5 Port PoE Gigabit Switch



The safety advice in the document accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALLNET ALL048605PD conforms to the Council Directives of EC EMC 2004/108/EC with CE marking requirement. This equipment meets the following conformance standards:

EN 55022:2010 Class B

IEC 61000-3-2:2005

+A1:2008+A2:2009

IEC 61000-3-3:2008

EN 55024:2010

IEC 61000-4-2:2008

IEC 61000-4-3:2006+A1:2007+A2:2010

IEC 61000-4-4:2004+A1:2010

IEC 61000-4-5:2005

IEC 61000-4-6:2008

IEC 61000-4-8:2009

IEC 61000-4-11:2004

This equipment is intended to be operated in all countries.

This declaration is made by

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Germering, 13.09.2014

