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<b>Category</b>	<b>System</b>		
<b>Product</b>	<b>All products</b>		
<b>Title</b>	<b>What is PoE and its selection guide?</b>		

## What is PoE and its selection guide?

PoE technology is a method to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network.

PoE follows the IEEE 802.3af standard, so any device with PoE capability can get its power from the twisted-pair cable and also has short circuit protection.

There are two types of devices including PSE (Power Sourcing Equipment) and PD (Powered Device).

Power Sourcing Equipment (PSE) is a device (switch or hub for instance) that will provide power in a PoE setup. Examples are Telexper's nHub-4P. Maximum continuous output power per PoE Hub in IEEE802.3af is 15.40W.

A Powered Device is a device (IP Camera, Video Server for instance) powered by a PSE and thus consumes power. Only 12.95 W is assured to be available at the powered device as some power is dissipated in the cable.

PoE enables networked devices to receive power from a PoE-enabled switch through the same standard cable that transmits data (video). Hiring a certified electrician and installing a separate power line are not needed—PoE hub saves manpower, time and money, this is a big advantage.

PoE provides power within 100 Meter. If you have a PD device connected to the PSE device with a network cable longer than 100 Meter, the PoE function will not work.

All products, such as IP Cameras, Video Server, ... etc, from Telexper can be powered by Telexper's nHub-4P & nHub-12P.

Please check <http://www.telexper.com/telexper-en/products/ncs.htm>