



## PoE12-30W / PoE12-60W

### 2.5G PoE+ Injector / 5G PoE++ Injector

As demands for connection from networking devices such as IP phones, IP cameras and access points increase, deployment complexity and cost rise as well. For less cable usage and investment, Power over Ethernet (PoE) technology provides both data connection and electrical power to devices through just one cable without power-socket restriction. Featured with the benefits of PoE technology, Zyxel's PoE Injectors, PoE12-30W and PoE12-60W, all provide super-fast LAN connectivity with high-power budget; easily connect to PoE devices over Cat 5e or above cable. PoE12-30W and PoE12-60W support PoE+ and PoE++ standards respectively, both ensure interoperability with other standard-based PoE-capable devices.

### Benefits

#### Higher network speed boosts network performance

PoE12-30W and PoE12-60W are here to meet the increasing demand of connection for high-speed networking devices such as WiFi 6 AP, surveillance PTZ camera or advanced POS terminals. PoE12-30W is equipped with 100M/1G/2.5G RJ-45 ports providing network speeds of up to 2.5 Gbps, and PoE12-60W is equipped with 1G/2.5G/5G RJ-45 ports providing network speeds of up to 5 Gbps. Both models can connect Multi-Gigabit devices using existing Cat 5e cable without extra re-cabling cost.

#### Port Speed

PoE12-30W: up to 2.5G  
PoE12-60W: up to 10G\*/5G

\* Limited support for Cat 6a, with cable lengths of up to 30 meters

#### PoE Power Budget

PoE12-30W: 30 W  
PoE12-60W: 60 W

#### PoE Standard

PoE12-30W: IEEE 802.3at PoE+  
PoE12-60W: IEEE 802.3bt PoE++

#### Easy Installation

Plug-and-play desktop or wall-mounted deployments

#### Robust Protection

Overloading and short-circuit protection

## Larger power budget powers more PD devices

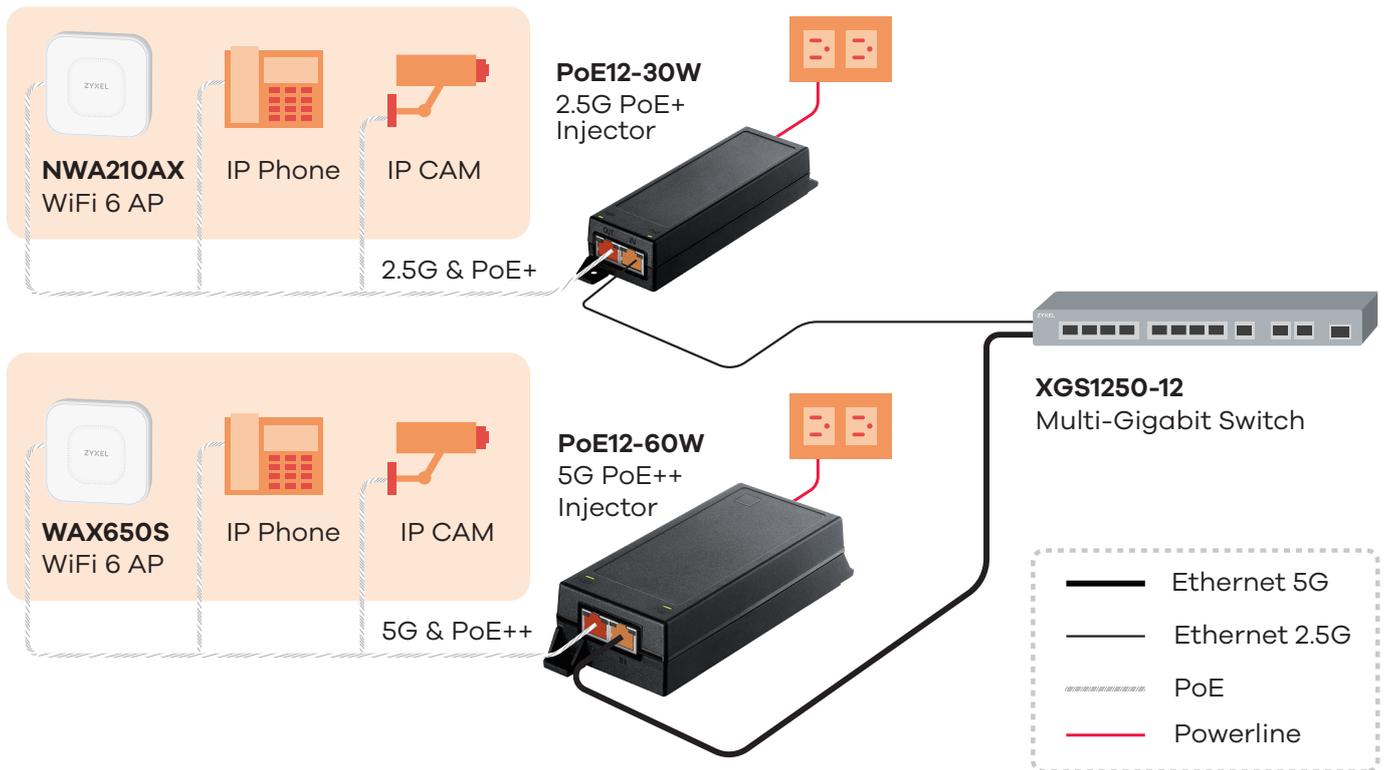
PoE12-30W complies with IEEE 802.3at PoE+ standard and PoE12-60W complies with IEEE 802.3bt PoE++ standard to provide PoE power budget up to 30 W and 60 W, respectively. Both models ensure interoperability and compatibility with other standard-based PoE-capable devices. They ease the installation for wireless LAN expansion by offering an alternative to external DC power to Access Points while the network only deployed non-PoE Ethernet Switches.

## Easy to use with robust protection

Installation is incredibly easy, simply connect the Injector to an Ethernet Switch and to the designated PoE device to provide proper power and data traffic for the entire network. The compact and lightweight design is easy to install and facilitates deployment of PoE devices where power outlets are not available.

Both PoE Injectors have overload and short circuit protection, which shuts down the power immediately if those issues prevail, leaving no damage to your equipment.

## Application Diagram



# Specifications

Model	PoE12-30W	PoE12-60W	
Product name	2.5G PoE+ Injector	5G PoE++ Injector	
			
<b>Port Density</b>			
Total port count	2	2	
100M/1G/2.5G (Data)	1	-	
100M/1G/2.5G (Power/Data)	1	-	
100M/1G/2.5G/5G/10G* (Data)	-	1	
100M/1G/2.5G/5G/10G* (Power/Data)	-	1	
<b>PoE</b>			
Total PoE budget (watts)	30	60	
PoE Standard	802.3at PoE+	802.3bt PoE++	
Ethernet Standard	<ul style="list-style-type: none"> <li>• IEEE 802.3u 100BASEX Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3bz 2.5GBASE-T</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3u 100BASEX Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3bz 2.5G/5G BASE-T</li> <li>• IEEE 802.3an 10G BASE-T*</li> </ul>	
<b>Power</b>			
Input	100 - 240 V 1.0 A, 50/60 Hz	100 - 240 V 2.0 A, 50/60 Hz	
Max. power consumption (without PD, watts)	0.07	0.126	
<b>Physical Specifications</b>			
Item	Dimensions (WxDxH)(mm/in.)	140 x 45.5 x 30/5.51 x 1.79 x 1.18	140 x 65 x 38.5/5.51 x 2.56 x 1.52
	Weight (g/lb.)	144/0.32	278/0.61
Packing	Dimensions (WxDxH)(mm/in.)	171 x 121 x 42/6.73 x 4.76 x 1.65	168 x 142 x 47/6.61 x 5.59 x 1.85
	Weight (g/lb.)	918/2.02	1120/2.47
Included accessories	Power cord	Power cord	
<b>ESD/Surge Protections</b>			
ESD (air/contact)	8 KV/6 KV	8 KV/6 KV	
Surge	+/- 4 KV	+/- 6 KV	
<b>Environmental Specifications</b>			
Operating	Temperature	-10°C to 45°C/14°F to 113°F	-10°C to 40°C/14°F to 104°F
	Humidity	5% to 90% (non-condensing)	5% to 90% (non-condensing)
Storage	Temperature	-25°C to 70°C/-13°F to 158°F	-25°C to 65°C/-13°F to 149°F
	Humidity	5% to 90% (non-condensing)	5% to 90% (non-condensing)
MTBF (hr)	1,869,569	1,892,473	
Heat dissipation (BTU/hr)	119.08	254.88	

\* PoE12-60W supports 10G speeds with deployments using Cat 6a cable or higher, up to a maximum length of 30 meters.

For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

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