



PoE12-30W / PoE12-60W / PoE12-90W

2.5G PoE+ Injector / 5G PoE++ Injector / 10G 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, all provide super-fast LAN connectivity with high-power budget; easily connect to PoE devices over Cat 5e or above cable. PoE12-30W supports PoE+ standard while PoE12-60W and PoE12-90W support PoE++ standard, they ensure interoperability with other standard-based PoE-capable devices.

Benefits

Higher network speed boosts network performance

Zyxel PoE injectors are here to meet the increasing demand of connection for high-speed networking devices such as WiFi 7 and 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, PoE12-60W is equipped with 1G/2.5G/5G RJ-45 ports providing network speeds of up to 5 Gbps, and PoE12-90W is equipped with 1G/2.5G/5G/10G RJ-45 ports providing network speeds of up to 10 Gbps.

Port Speed

PoE12-30W: up to 2.5G
PoE12-60W: up to 10G*/5G
PoE12-90W: up to 10G

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



PoE Power Budget

PoE12-30W: 30 W
PoE12-60W: 60 W
PoE12-90W: 90 W



PoE Standard

PoE12-30W: IEEE 802.3at PoE+
PoE12-60W: IEEE 802.3bt PoE++
PoE12-90W: 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

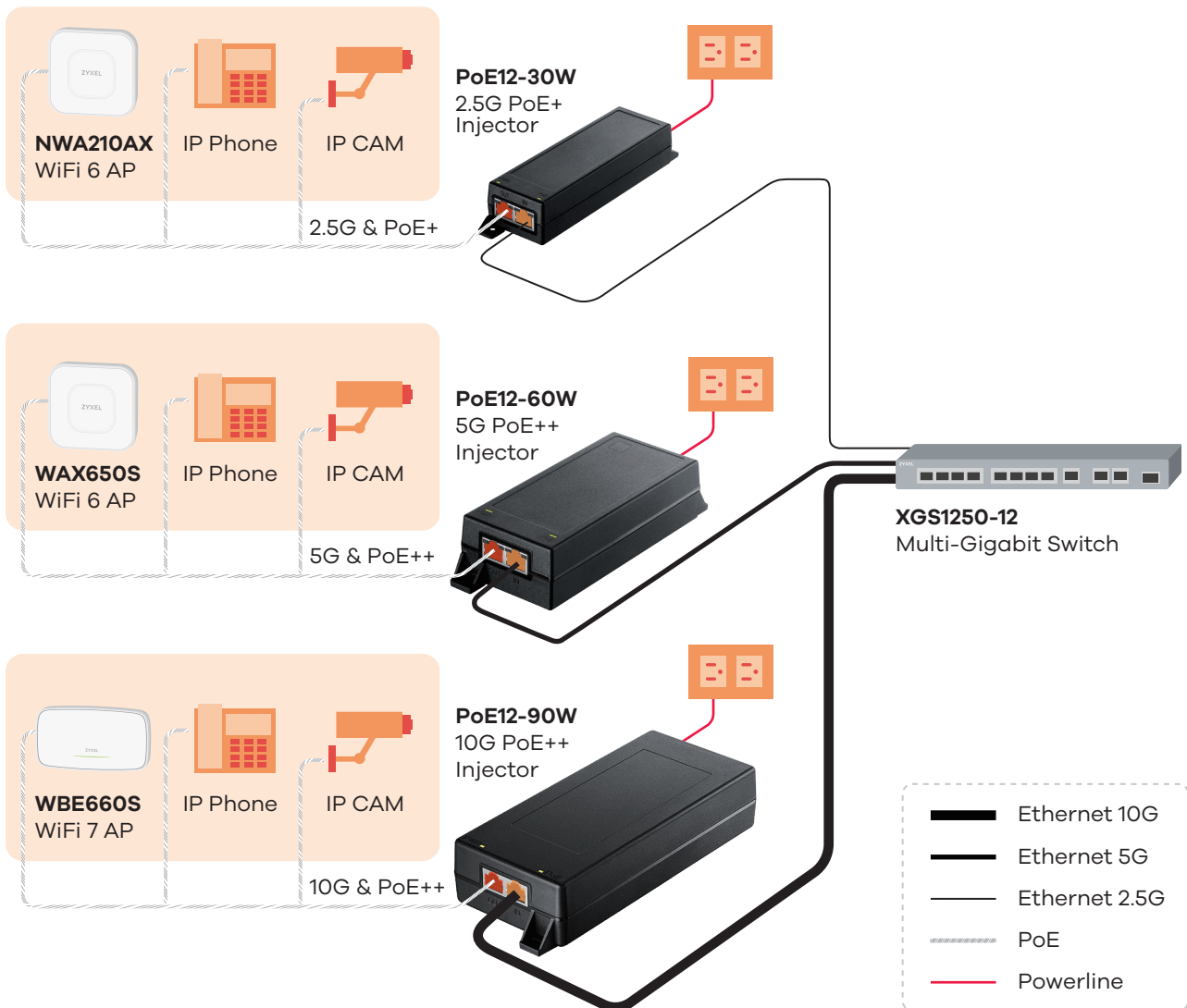
PoE12-30W complies with IEEE 802.3at PoE+ standard, while PoE12-60W and PoE12-90W comply with IEEE 802.3bt PoE++ standard to provide PoE power budget up to 30 W, 60 W and 90 W, respectively. Both models ensure interoperability and compatibility with other standard-based PoE-capable devices. They ease 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



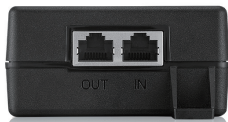
Installation is incredibly easy, simply connect the Injector to an Ethernet Switch and to the designated PoE device to provide proper power and data traffic for the entire network. The compact and lightweight design is easy to install and facilitates deployment of PoE devices where power outlets are 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	PoE12-90W	
Product name	2.5G PoE+ Injector	5G PoE++ Injector	10G PoE++ Injector	
				
Port Density				
Total port count	2	2	2	
100M/1G/2.5G (Data)	1	-	-	
100M/1G/2.5G (Power/Data)	1	-	-	
100M/1G/2.5G/5G/10G (Data)	-	1*	1	
100M/1G/2.5G/5G/10G (Power/Data)	-	1*	1	
PoE				
Total PoE budget (watts)	30	60	90	
PoE Standard	802.3at PoE+	802.3bt PoE++	802.3bt PoE++	
Ethernet Standard	<ul style="list-style-type: none"> • IEEE 802.3u 100BASEX • IEEE 802.3ab 1000BASE-T • IEEE 802.3bz 2.5GBASE-T 	<ul style="list-style-type: none"> • IEEE 802.3u 100BASEX • IEEE 802.3ab 1000BASE-T • IEEE 802.3bz 2.5G/5GBASE-T • IEEE 802.3an 10G BASE-T* 	<ul style="list-style-type: none"> • IEEE 802.3u 100BASEX • IEEE 802.3ab 1000BASE-T • IEEE 802.3bz 2.5G/5GBASE-T • IEEE 802.3an 10G BASE-T 	
Power				
Input	100 - 240 V 1.0 A, 50/60 Hz	100 - 240 V 2.0 A, 50/60 Hz	100 - 240 V 2.0 A, 50/60 Hz	
Max AC power consumption (watts)	34.90 (includes 30 W PoE output)	74.70 (includes 60 W PoE output)	101.88 (includes 90 W PoE output)	
AC idle power consumption (watts)	0.070	0.126	0.138	
Physical Specifications				
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	196.25 x 80 x 39.8/ 7.73 x 3.15 x 1.57
	Weight (g/lb.)	144/0.32	278/0.61	456/1.01
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	205 x 155 x 47/ 8.07 x 6.1 x 1.85
	Weight (g/lb.)	918/2.02	1120/2.47	651/1.44
Included accessories		Power cord	Power cord	Power cord
ESD/Surge Protections				
ESD (air/contact)	8 KV/6 KV	8 KV/6 KV	15 KV/8 KV	
Surge	+/- 4 KV	+/- 6 KV	+/- 4 KV	
Environmental Specifications				
Operating Temperature	-10°C to 45°C/14°F to 113°F	-10°C to 40°C/14°F to 104°F	-10°C to 40°C/14°F to 104°F	
Humidity	5% to 90% (non-condensing)	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	-25°C to 65°C/-13°F to 149°F	
Humidity	5% to 90% (non-condensing)	5% to 90% (non-condensing)	5% to 90% (non-condensing)	
MTBF (hr)	17.91	36.75	45.21	
Heat dissipation (BTU/hr)	119.08	254.88	41.56	

* 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

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