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- Non-blocking, wire-speed transmission
- Auto MDI/MDI-X support
- IEEE 802.3az compliant (ES1100-16/24/24E)
- Fanless design for silent operations
- IEEE 802.3x flow control supported
- IEEE 802.1p CoS supported
- IEEE 802.3af power on up to 4/8 ports (ES1100-8P/16P)

## ES1100 Series 8/16/24-port FE Unmanaged Switch

## IEEE 802.3az-compliant Switch with Great Performance for Small-group Networks

The ZyXEL Switch ES1100 Series is designed for SMBs to boost business network performance and efficiency. It enables businesses to enter the world of networking connectivity without the need for complicated management. The Series provides not only plug-and-play simplicity for high-bandwidth connectivity but also the N-way Auto-negotiation functions to connect its network counterparts with the highest possible data speed as well as to activate the duplex mode automatically. The ES1100 Series is ideal for typical noise-sensitive office environments for its superior energy efficiency and Ethernet connectivity.

The ES1100 Series consists of four Fast Ethernet switches and two Power over Ethernet (PoE) switches: the ZyXEL ES1100-16, ES1100-24, ES1100-24E and ES1100-24G; ES1100-8P and ES1100-16P. The desktop design of ZyXEL ES1100-8P/16P/16/24E switch is ideal for SB or SOHO users seeking reliable network connectivity that fits into rack environment easily, while the ES1100-24/24G is designed for 19" racks, making it easy to be deployed in standard wiring closets.

### Benefits

#### Green networking

The environment-aware ES1100 Series offers 10/100M Ethernet speeds critical to the next-generation network applications, and it also provides power-saving functions to reduce energy consumption for lower operating cost.

#### Traffic detection — IEEE Energy Efficient Ethernet (EEE) compliance (ES1100-16/24/24E)

The feature automatically detects network traffics and adjusts power consumption accordingly in a dynamic manner. It reduces power consumption during the low link utilization periods.

#### Inactive link detection

The power usage adjustment feature automatically reduces power usage when any shut down network device or inactive link is detected. That is, power consumption of the Series can be adjusted according to the link status or the number of active network devices when possible.

#### Cable length detection

The devices equipped with this green feature can automatically detect the length of connected Ethernet cables and adjust power usage accordingly. The shorter the cable length, the less power it consumes.



Energy Efficient Ethernet



Adjust Power Usage



Detect Cable Length



Power On/Off Switch



## **ES1100 Series**

### **8/16/24-port FE Unmanaged Switch**

#### **Best-in-class solution for Fast Ethernet environments**

The ES1100 Series comprises of unmanaged Fast Ethernet switches that provide an inexpensive solution for Fast Ethernet connections to the desktop with outstanding performance. The ES1100 Series is an ideal solution for bandwidth-intensive applications such as high-resolution photo delivery, video/audio streaming and downloading as well as server farm connections.

#### **Better performance and efficiency**

The full ES1100 range of 16/24-port Fast Ethernet switches has been designed to boost your network with better performance and efficiency. With the N-Way Auto-negotiation function, the ES1100 Series connects the network counterparts with the highest possible data speed and activates the duplex mode automatically.

#### **Transmission reliability**

Unlike shared 10/100 Mbps networks, the ES1100 Series eliminates congestion by providing dedicated bandwidth; and its duplex mode doubles the effective bandwidth by enabling two-way communications. The store-and-forward service brings low latency and error-free packet delivering, while the plug-and-play and multiple network protocol compatibility of the ES1100 Series makes installation and management easier and faster than ever.







#### **Desktop size with flexible rackmount and wallmount design fits your working environments**

With embedded rackmount brackets, the desktop size devices can fit into your rack environment easily. No matter how intense your network demand is, the ES1100 Series supports your needs with an affordable and reliable network solution designed especially for small businesses.

#### **Freedom of installation by PoE (ES1100-8P/16P)**

The ES1100-8P and ES1100-16P support IEEE 802.3af PoE to ease installation in challenging spaces such as ceiling or wall mounting. It works with devices such as WLAN APs, VoIP phones and IP surveillance cameras that can be powered by Ethernet connectivity over CAT-5 cables less than 100 meters (300 feet) in length; so there is no need for extra power adapters, and powering the devices installed on the ceiling is no longer a headache. This feature helps enterprises to reduce installation time and cost when many new devices are needed.

## Specifications

Model	ES1100-8P	ES1100-16P	ES1100-16	ES1100-24E	ES1100-24	ES1100-24G
<b>Product Name</b>	8-port FE Unmanaged PoE Switch 	16-port FE Unmanaged PoE Switch 	16-port FE Unmanaged Switch 	24-port FE Unmanaged Switch 	24-port FE Unmanaged Switch 	24-port FE Unmanaged Switch 
<b>Port Density</b>						
<b>10/100Base-T</b>	4	8	16	24	24	24
<b>10/100 Base-T PoE</b>	4	8	-	-	-	-
<b>Dual personality GbE ports</b>	-	-	-	-	-	2
<b>Performance</b>						
<b>Switching Capacity (Gbps)</b>	1.6	3.2	3.2	4.8	4.8	8.8
<b>Switching Forwarding Rate (Mpps)</b>	1.2	2.4	2.4	3.6	3.6	6.6
<b>Packet Buffer</b>	96 KB	160 KB	256 KB	256 KB	256 KB	320 KB
<b>MAC Address</b>	1K	8K	8K	8K	8K	8K
<b>Jumbo frame support (up to 2048 bytes)</b>	-	-	Yes	Yes	Yes	-
<b>802.3x flow control prioritization</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>802.1p CoS</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Broadcast Storm Control</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Back-Pressure-Base flow control</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Loop-detection</b>	-	-	Yes	Yes	Yes	-
<b>Auto MDI/MDI-X</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Power Requirement</b>						
<b>Input voltage of AC</b>	100 - 240 V AC, 50/60 Hz					
<b>PoE power budget</b>	64 W	130 W	-	-	-	-
<b>Physical Feature</b>						
<b>Fanless</b>	Yes	-	Yes	Yes	Yes	Yes
<b>Item dimensions (WxDxH)(mm/in.)</b>	262 x 184 x 41/ 10.31 x 7.24 x 1.61	262 x 184 x 41/ 10.31 x 7.24 x 1.61	216 x 133 x 42/ 8.50 x 5.24 x 1.65	267 x 162 x 42/ 10.51 x 6.38 x 1.65	441 x 131 x 44/ 17.36 x 5.16 x 1.73	441 x 131 x 44/ 17.36 x 5.16 x 1.73
<b>Item weight (kg/lb.)</b>	1.4/3.09	1.7/3.75	0.77/1.70	1.28/2.82	1.35/2.98	1.5/3.31
<b>Packing dimensions (WxDxH)(mm/in.)</b>	318 x 275 x 73/ 12.52 x 10.83 x 2.87	318 x 275 x 73/ 12.52 x 10.83 x 2.87	325 x 227 x 71/ 12.80 x 8.94 x 2.80	325 x 227 x 71/ 12.80 x 8.94 x 2.80	477 x 222 x 71/ 18.78 x 8.74 x 2.80	477 x 222 x 71/ 18.78 x 8.74 x 2.80
<b>Packing weight (kg/lb.)</b>	2.2/4.85	2.5/5.51	1.59/3.51	2.1/4.63	2.14/4.72	2.2/4.85
<b>Environmental Specification</b>						
<b>Operating temperature</b>	0°C to 50°C/32°F to 122°F					
<b>Storage temperature</b>	-40°C to 70°C/-40°F to 158°F					
<b>Operating humidity</b>	10% to 95% (non-condensing)					

### Standard Compliance

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-TX Fast Ethernet
- IEEE 802.3ab 1000Base-T Ethernet
- IEEE 802.3af PoE
- IEEE 802.3x Flow control and Back-pressure
- IEEE 802.1p CoS
- IEEE 802.3az EEE

### Certification

#### Safety

- EN 60950-1
- IEC 60950-1
- EU RoHS Compliant

#### Emission (EMC)

- FCC Part15 (Class A)
- CE EMC (Class A)



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