

# ES-105/ES-108

## SOHO Ethernet Switches



ZyXEL's ES-105 and ES-108 are 5 and 8-port 10/100 Mbps Ethernet switches. Both models provide auto-sensing 10/100 Mbps switching capabilities for efficient connectivity to servers, workstations and other attached devices. Plug-n-play usability, outstanding price-to-performance ratio, and flexible designs make the ES-105 and ES-108 simple and affordable solutions for a wide range of SOHO applications.

### Benefits

#### Simple-to-use

Both the ES-105 and ES-108 feature auto-sensing 10/100Mbps ports that automatically detect the speed and duplex mode of attached networking devices, making installation fast and easy.

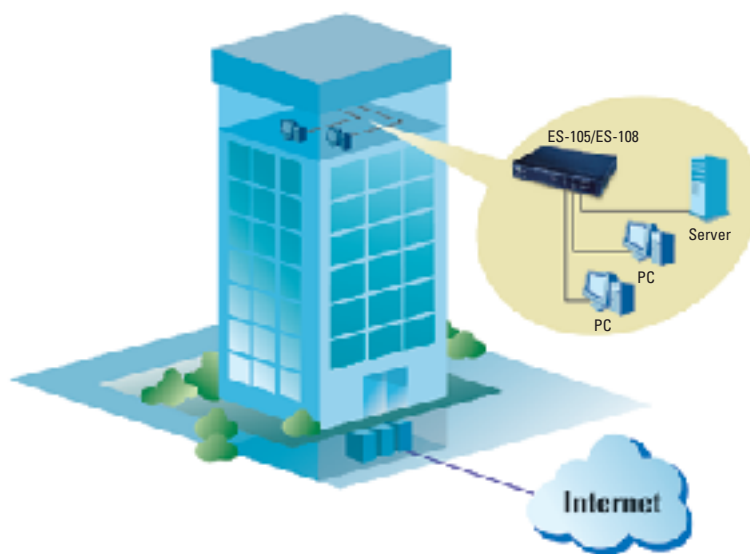
#### Auto-MDI/MDI-X

Auto-MDI/MDI-X features in both the ES-105 and ES-108 automatically adjust the transmit/receive pins within a port, rendering crossover cables unnecessary. Auto MDI/MDI-X is based on signals detected from the wires of attached devices.

#### Flow Control Allows Fast and Reliable Connections

The IEEE 802.3x standard-based flow control allows both the ES-105 and ES-108 to prevent traffic congestion by informing attached devices to stop transmission. When the switches detect that the buffer of each port is nearly full, attached devices are requested to wait until new data can be accepted. Flow control allows 200 Mbps full duplex connections between servers and switches with minimum data transfer loss.

### ES - 105 / ES - 108 for SOHO Application



## Features &amp; Specifications

	ES-105	ES-108
<b>General</b>		
<b>Standard</b>	<ul style="list-style-type: none"> <li>IEEE802.3 10BASE-T Ethernet (twisted-pair copper)</li> <li>IEEE802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)</li> <li>ANSI/IEEE802.3 Auto-negotiation</li> </ul>	
<b>Interface</b>	• 5 10/100BASE-T Ethernet port	• 8 10/100BASE-T Ethernet port
<b>Data Transfer Rate</b>	<ul style="list-style-type: none"> <li>Ethernet: 10Mbps(half duplex), 20Mbps (full duplex)</li> <li>Fast Ethernet: 100Mbps (half duplex), 200Mbps(full duplex)</li> </ul>	
<b>Cabling</b>	<ul style="list-style-type: none"> <li>10BASE-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 (100 m)</li> <li>100BASE-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 (100 m)</li> </ul>	
<b>Full/Half Duplex</b>	• Full/half duplex for 10/100Mbps speeds	
<b>Media Interface Exchange</b>	• All ports MDI/MDI-X auto-adjustment	
<b>Performance &amp; Management</b>		
<b>Packet Forwarding Rate</b>	<ul style="list-style-type: none"> <li>14880pps for 10BASE-T</li> <li>148800pps for 100BASE-TX</li> </ul>	<ul style="list-style-type: none"> <li>14880pps for 10BASE-T</li> <li>148800pps for 100BASE-TX</li> </ul>
<b>Switching Method</b>	• Store-and-forward	• Store-and-forward
<b>MAC Address Table</b>	• 1K	• 2K
<b>Data Buffer</b>	• 128KByte	• 512KByte
<b>Physical &amp; Environment</b>		
<b>LED</b>	<ul style="list-style-type: none"> <li>Per port: LK/ACT, FD/COL</li> <li>System: power</li> </ul>	<ul style="list-style-type: none"> <li>Per port: LK/ACT, FD/COL</li> <li>System: power</li> </ul>
<b>Dimensions</b>	• 70mm(W) x 110mm(D) x 19mm(H)	• 164mm(W) x 100mm(D) x 26mm(H)
<b>External Power Supply</b>	<ul style="list-style-type: none"> <li>AC input: 120 or 230 VAC, 50 ~ 60Hz</li> <li>DC output: 9VDC, 800mA</li> </ul>	<ul style="list-style-type: none"> <li>AC input: 120 or 230 VAC, 50 ~ 60Hz</li> <li>DC output: 9VDC, 800mA</li> </ul>
<b>Power Consumption</b>	• 4.2W max	• 4.2W max
<b>Operating Temperature</b>	• 0°C ~ 45°C (32°F ~ 113°F)	• 0°C ~ 45°C (32°F ~ 113°F)
<b>Operational Humidity</b>	• 10% ~ 90% (Non-condensing)	• 10% ~ 90% (Non-condensing)
<b>EMI</b>	<ul style="list-style-type: none"> <li>FCC Class B</li> <li>CE</li> </ul>	<ul style="list-style-type: none"> <li>FCC Class B</li> <li>CE</li> </ul>
<b>Safety</b>	• UL, cUL	• UL, cUL

**ZyXEL**  
TOTAL INTERNET ACCESS SOLUTION



**Corporate Headquarters**  
ZyXEL Communications Co.  
Tel: +886-3-578-3942  
Fax: +886-3-578-2439  
Email: sales@zyxel.com.tw  
http://www.zyxel.com  
http://www.zyxel.com.tw

**North America**  
ZyXEL Communications Inc.  
Tel: +1-714-632-0882  
Fax: +1-714-632-0858  
Email: sales@zyxel.com  
http://www.zyxel.com

**Germany**  
ZyXEL Deutschland GmbH.  
Tel: +49 2405 6909 0  
Fax: +49 2405 6909 99  
Email: sales@zyxel.de  
http://www.zyxel.de

**Denmark**  
ZyXEL Communications A/S  
Tel: +45 39 55 07 00  
Fax: +45 39 55 07 07  
Email: sales@zyxel.dk  
http://www.zyxel.dk

**Norway**  
ZyXEL Communications A/S  
Tel: +47 22 80 61 80  
Fax: +47 22 80 61 81  
Email: sales@zyxel.no  
http://www.zyxel.no

**Sweden**  
ZyXEL Communications A/S  
Tel: +46 (0) 31 744 3810  
Fax: +46 (0) 31 744 3811  
Email: sales@zyxel.se  
http://www.zyxel.se