primex

USER MANUAL

# PXU Network Switch Series

PXU-1G08 | PXU-1G44 | PXU-1G80

www.primex.com

# PACKAGE CONTENTS

Thank you for purchasing a Primex PXU 8-port Network Switch. The table below shows the models and their configurations.
The PXU Network Switch box should contain the following items:

| Model Name | P/N | PoE+ Ports 802.3at | Network Ports | Power Adapter |
|---|---|---|---|---|
| PXU-1G08 | 125-1891 | 0 | 8 | DC 12V, 0.5A |
| PXU-1G44 | 125-1892 | 4 | 4 | DC 54V, 1.33A |
| PXU-1G80 | 125-1893 | 8 | 0 | DC 54V, 2.4A |

| PXU Network Switch x 1 | User Manual x 1 |
|---|---|
|  |  |

Power Adapter & Power Cord x 1 (PXU-1G44, PXU-1G80)

Power Adapter x 1 (PXU-1G08)

# HARDWARE DESCRIPTION

## Switch Front View

The front panel of the PXU Network Switch consists of 8 Auto-Sensing 10/100/1000Mbps Ports. LED Indicators are also located on the RJ45 ports that indicate operation status.

PXU Switch Front View (PXU-1G44 shown)


1. Easy-to-read PoE+ power monitoring selection switch.
2. Multi-Mode Standard, VLAN, and extended operation.
3. Front-Facing Power connection for easy access and installation.
4. a) PXU-1G44: 4 RJ45 ports w/PoE on top, 4 RJ45 ports on bottom
   b) PXU-1G80: 4 RJ45 ports w/PoE on top, 4 RJ45 ports w/PoE on bottom
   c) PXU-1G08: 4 RJ45 ports on top, 4 RJ45 ports on bottom

## LED Indicators

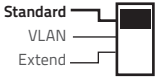
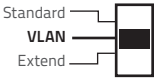
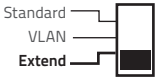
| System and Ports | | |
|---|---|---|
| LED | Color | Function |
| PWR | Green | Indicates that the switch has power. |
| LNK/ACT | Green | Indicates the link through that port is successfully established.<br>Blinks: Indicates that the switch is actively sending or receiving data over that port. |
| PoE-in-Use | Amber | Indicates the port is providing DC in-line power.<br>Off: Indicates the connected device is not a PoE powered device (PD). |

| PoE Power Usage of PXU-1G44 125-1892 (Unit: Watt) | | | |
|---|---|---|---|
| LED | Color | | Function |
| 15 | Amber | Off | PoE usage is less than 7W. |
| | | Blinks | PoE usage is around 8W to 14W. |
| | | Lights | PoE usage is over 15-watt PoE power budget. |
| 30 | Amber | Blinks | PoE usage is around 23W to 29W. |
| | | Lights | PoE usage is over 30-watt PoE power budget. |
| 45 | Amber | Blinks | PoE usage is around 38W to 44W. |
| | | Lights | PoE usage is over 45-watt PoE power budget. |
| 60 | Amber | Blinks | PoE usage is around 53W to 59W. |
| | | Lights | PoE usage is at the maximum. |

| PoE Power Usage of PXU-1G80 125-1893 (Unit: Watt) | | | |
|---|---|---|---|
| LED | Color | | Function |
| 30 | Amber | Off | PoE usage is less than 14W. |
| | | Blinks | PoE usage is around 15W to 29W. |
| | | Lights | PoE usage is over 30-watt PoE power budget. |
| 60 | Amber | Blinks | PoE usage is around 45W to 59W. |
| | | Lights | PoE usage is over 60-watt PoE power budget. |
| 90 | Amber | Blinks | PoE usage is around 75W to 89W. |
| | | Lights | PoE usage is over 90-watt PoE power budget. |
| 120 | Amber | Blinks | PoE usage is around 105W to 119W. |
| | | Lights | PoE usage is at the maximum. |

## DIP Switch

The front panel of the PXU Network Switch provides one DIP switch for Standard, VLAN and Extend mode selections.

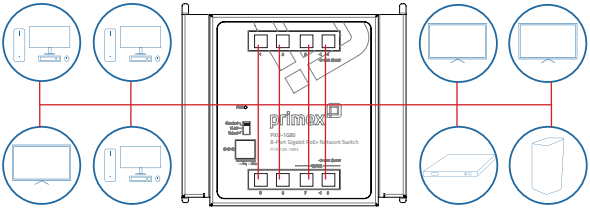
| DIP Switch Mode | Function |
|---|---|
|  | Switch operates as a general switch and all ports operate at 10/100/1000Mbps auto-negotiation. |
|  | Switch operates as a VLAN isolation switch and<br>▪ Port 1 to port 6 will isolate respectively.<br>▪ Port 1 to port 6 can only communicate with port 7 and port 8 (uplink port). |
|  | Switch operates as a VLAN isolation switch and<br>▪ Port 1 to port 6 will isolate respectively.<br>▪ Port 1 to port 6 can only communicate with port 7 and port 8 (uplink port).<br>▪ Transmission distance of 250m at speed of 10Mbps. |

**Important:** Reboot the PXU Network Switch after adjusting the DIP switch.

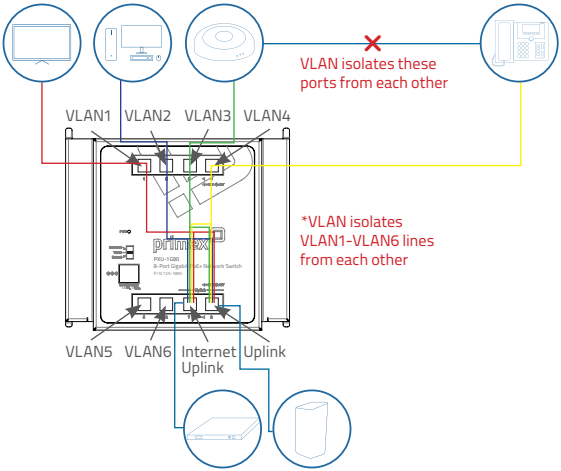
## DIP Switch

The front panel of the PXU Network Switch provides one DIP switch for Standard, VLAN and Extend mode selections.

**Standard:** all ports connect to the same local network.



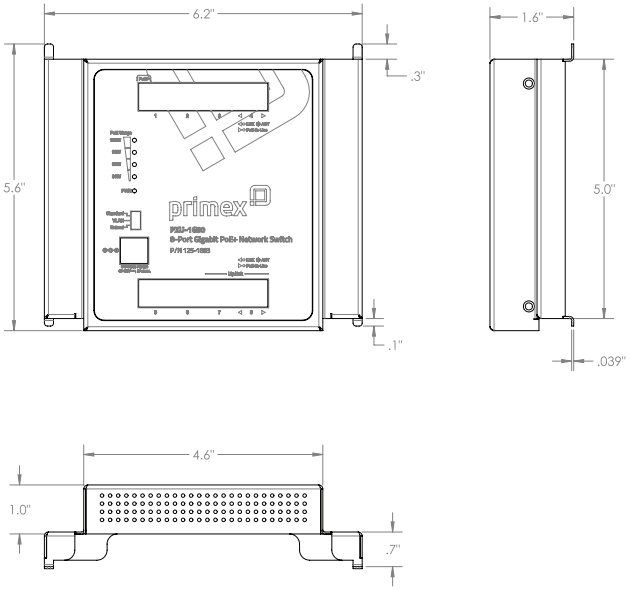
### VLAN



## Physical Dimensions

W x D x H: 6.2 x 1.6 x 5.6 in

PXU-1G80 Shown

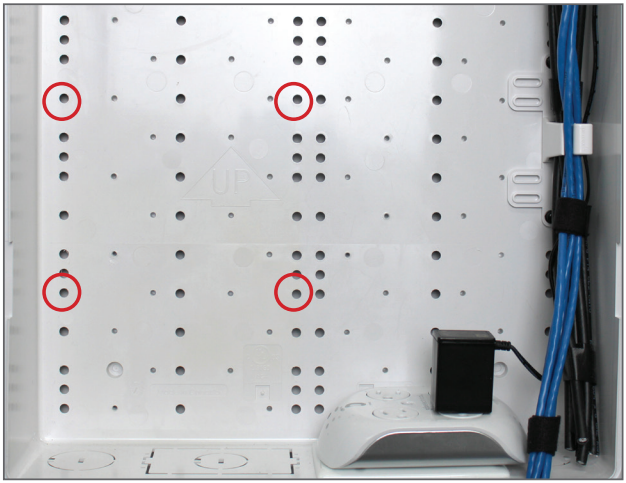


# INSTALLATION

## SOHO Pro™ Media Panel Installation

To install the PXU Network Switch within a Primex SOHO Pro™ media panel, simply follow these steps:

**Step 1:** Locate where in the SOHO Pro™ media panel you would like to install. Ensure location allows for unobstructed cabling runs.



Visit primex.com/resources/videos/
for full installation video.

**Step 2:** Insert to the top two hooks of the PXU Network Switch into the mounting holes of the SOHO Pro™ media panel as shown.


Visit primex.com/resources/videos/
for full installation video.

**Step 3:** Engage the bottom hooks of the PXU Network Switch by pushing up on the unit slightly, slotting in the bottom hooks, then lowering into locking position.


Visit primex.com/resources/videos/
for full installation video.

**Step 4:** Connect cabling and select mode as required.

Example 1 (PXU-1G44 shown, 4-Port PoE+/4-Port Network):


Visit primex.com/resources/videos/ for full installation video.

Example 2 (PXU-1G08 shown, 8-Port Network):


Visit primex.com/resources/videos/ for full installation video.

## Energy Saving Note of the Device – AC Adapter

This powered device does not support Standby mode operation. To save energy, disconnect the AC adapter when not in use. Without removing the AC Adapter, the device will still consume power from the power source. It is strongly suggested to remove the AC adapter from the device if it is not active.

# TROUBLESHOOTING

| Problem | Solution |
|---|---|
| The Link LED is not lit | Check the cable connection of the Unmanaged Switches |
| Some stations cannot talk to other stations located on the other port | Check the DIP switch and mode status. VLAN and extend mode may cause port isolation. |
| Switch doesn't connect to the network | 1. Check the LNK/ACT LED on the switch.<br>2. Try another port on the switch.<br>3. Make sure the cable is installed properly.<br>4. Make sure the cable is the right type.<br>5. Turn off the power. After a while, turn on power again. |
| 1000BASE-T port link LED is lit, but the traffic is irregular | Check that the attached device is not set to dedicate full duplex. Some devices use a physical or software switch to change duplex modes. Auto negotiation may not recognize this type of full duplex setting. |
| Switch does not power up | 1. DC jack or AC power cord is not inserted or faulty.<br>2. Check that the DC jack or AC power cord is inserted correctly.<br>3. Replace the DC jack or AC power cord if the cord is inserted correctly check that the power source is working by connecting a different device in place of the switch. |

# APPENDIX: PRODUCT SPECIFICATIONS

| Model | PXU-1G44 | PXU-1G80 | PXU-1G08 |
|---|---|---|---|
| Hardware Specifications | | | |
| Network Connector | 8-port RJ45 for 10/100/1000BASE-T<br>Auto-negotiation and auto MDI/MDI-X | | |
| PoE Inject Port | 4 | 8 | 0 |
| Power Requirements | 48~56V DC, 1.5A max. | 48~56V DC, 3A max. | 12V DC, 0.5A max. |
| Power Consumption | 70 watts/ 239 BTU | 137 watts/ 467 BTU | 3 watts/ 10 BTU |
| ESD Protection | 4KV DC | | |
| Surge Protection | 6KV DC | | |
| DIP Switch | Selectable operation mode<br>Standard / VLAN / Extend | | |
| Enclosure | IP30 metal | | |
| Dimensions | 6.2" x 1.6" x 5.6" (W x D x H) | | |
| Weight | 472 g | 474 g | 446 g |
| Switch Specifications | | | |
| MAC Address Table | 4K MAC address table with auto learning function | | |
| Data Buffer | 64Kbytes | | |
| Switch Fabric | 16Gbps | | |
| Switch Throughput | 11.9Mpps@64bytes | | |
| Flow Control | Back pressure for half duplex.<br>IEEE 802.3x pause frame for full duplex | | |

| Model | PXU-1G44 | PXU-1G80 | PXU-1G08 |
|---|---|---|---|
| Power over Ethernet | | | |
| PoE Standard | IEEE 802.3at Power over Ethernet Plus PSE<br>Backward compatible with IEEE 802.3af PoE | | N/A |
| PoE Type | End-span PSE | | N/A |
| Power Pin Assignment | 1/2(+), 3/6(-) | | N/A |
| PoE Power Output | Per port 52V~54V DC, 30 watts (max.) | | N/A |
| PoE Power Budget | 60 watts | 120 watts | N/A |
| Standard Conformance | | | |
| Standard Compliance | IEEE 802.3 Ethernet<br>IEEE 802.3u Fast Ethernet<br>IEEE 802.3ab Gigabit Ethernet<br>IEEE 802.3x Flow Control<br>IEEE 802.3az Energy Efficient Ethernet (EEE) | | |
| PoE Standard Compliance | IEEE 802.3af Power over Ethernet<br>IEEE 802.3at Power over Ethernet Plus | | N/A |
| Regulatory Compliance | FCC Part 15 Class A, CE | | |
| Environment | | | |
| Operating | Temperature: -20 ~ 60 degrees C<br>Relative Humidity: 5 ~ 95% (non-condensing) | | |
| Storage | Temperature: -20 ~ 70 degrees C<br>Relative Humidity: 5 ~ 95% (non-condensing) | | |

The PXU Series of network Switches are RoHS Compliant.

Product Information

## CUSTOMER SUPPORT

E-mail: info@primex.com
Phone: 877-881-7875

3 Year Manufacturer's Defect Warranty