BPS-120

Support Notes

Version 1.00.01

Nov 2004

ZyXEL

Unleash Networking Power

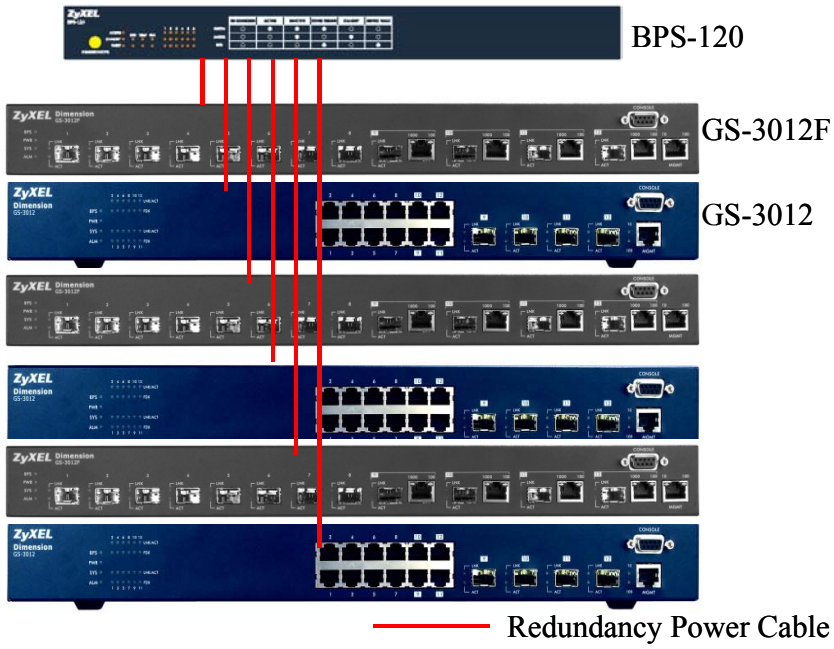
INDEX

All contents copyright (c) 2004 ZyXEL Communications Corporation.

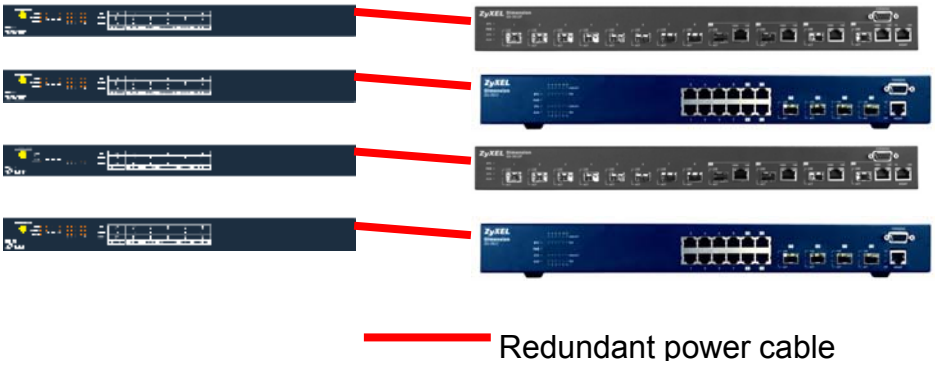
Application Note.

What kinds of the scenarios the BPS connect?

The **one-to-many** scenario is shown the following.



The **one-to-one** scenario is shown the following



The one-to-one scenario of backup power function is guaranteed. Because when one device power fails, the BPS can support this device immediately. In one-to-many scenario, the BPS cannot support the two fail devices at the same time. The backup power function is not guaranteed.

How does the BPS work?

The ZyXEL BPS-120 is designed to connect up to 6 external networking devices. When one of the internal devices powers down, the BPS turns on the power quickly and avoid the system reboot.

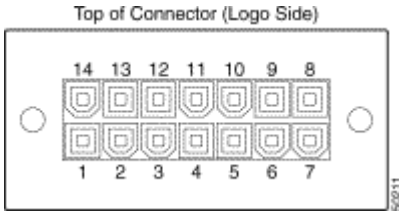
All contents copyright (c) 2004 ZyXEL Communications Corporation.

How to install the BPS?

The installation way BPS is very easy. You just use the “Redundant power cable” plug the ZyXEL Management Switches which support backup power between BPS. Then power on the BPS. The backup power environment is finished.

What is the power connector definition?

The connector type is shown below



Pin Number	Designation
1	GND
2	N/A
3	12V
4	12V
5	12V
6	12V
7	GND
8	GND
9	N/A
10	BPS_PRES (BPS present)
11	BPS_CTRL_0
12	BPS_CTRL 1
13	PWR_GOOD (Power is good)
14	GND

BPS-120 FAQ.

What is persist time of BPS?

The persist time is 60 ns.

All contents copyright (c) 2004 ZyXEL Communications Corporation.

When the BPS works?

When the device power is lower then 10V, the BPS start to provide external power to device.

When does the BPS turn off the power after BPS provides the power to device?

1. Remote device disconnected from BPS port.
2. Over temperature around the per-port MOSFET. When the temperature goes down, the BPS may turn on the power to the device again.
3. Remote device power plug-in.
4. BPS output voltage drops to below 10 volts for more than 40ms.

How many backup power supply control status?

There are four status for the BSP.

1. BPS inactive, power off.
2. BPS active, not providing power to the unit.
3. BPS active, providing power to the unit.
4. BPS active, power not available to the port.

What is the max 12V power output when BPS provides power to unit?

The max power is 120 Watt.

All contents copyright (c) 2004 ZyXEL Communications Corporation.