

Auto Power Reset

Have your IP Cameras or Wireless Access Points ever locked up from a glitch requiring immediate action to reset the device?

Transition Networks has the solution for you!

Transition Networks' solution, the Auto Power Reset feature, eliminates:

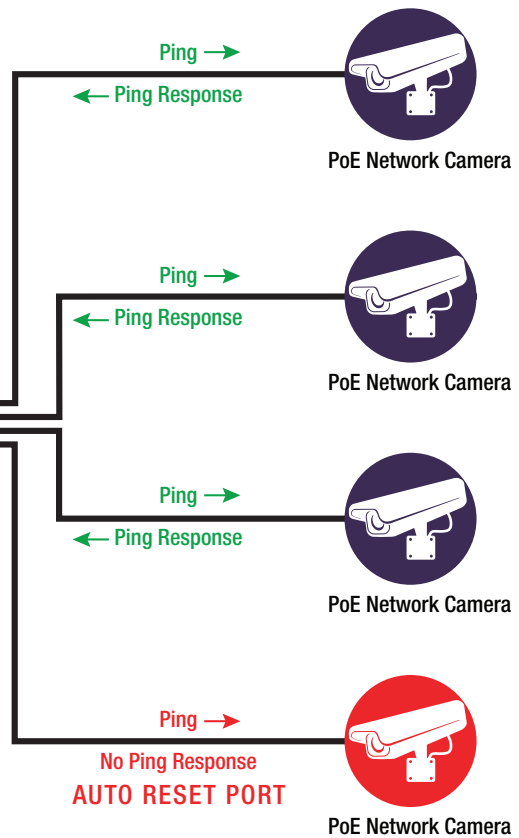
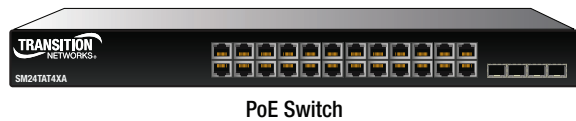
- Operational down time of security surveillance and the network
- The time and cost associated with using a technician to reset the device
- The need for a scissor-lift or other equipment that can cost up to \$200 per day
- Truck rolls and average time of 30-60 minutes to reset a device
- Need for OSHA, Security and Operation Directors to approve

How Does Auto Power Reset Work?

It automatically pings the device on a configured schedule and if the device does not respond to the configured number of pings the switch toggles the PoE power on the port which automatically resets the device.

APR Configuration

Port	Ping IP Address	Interval Time(sec)	Retry Time	Failure Log	Failure Action	Reboot Time(sec)
1	192.168.1.1	30	3	error=0 ,total=0	Reboot Remote PD *	15
2	192.168.1.2	30	3	error=0 ,total=0	Reboot Remote PD *	15
3	192.168.1.3	30	3	error=0 ,total=0	Reboot Remote PD *	15
4	192.168.1.4	30	3	error=0 ,total=0	Reboot Remote PD *	15
5	192.168.1.5	30	3	error=0 ,total=0	Reboot Remote PD *	15
6	192.168.1.6	30	3	error=0 ,total=0	Reboot Remote PD *	15
7	192.168.1.7	30	3	error=0 ,total=0	Reboot Remote PD *	15
8	192.168.1.8	30	3	error=0 ,total=0	Reboot Remote PD *	15



Auto Power Reset Products



		Port Count	Managed	PoE Level	PoE Mode	PoE Power Budget	
PoE Media Converters							
SPOEB Series	10/100Base-TX to 100Base-FX	2		PoE	A/B ¹	15W	
SGPOE Series	10/100/1000Base-T to 1000Base-xx	2-3		PoE	A	15W	
SGPAT Series	10/100/1000Base-T PoE+ PSE to 1000Base-X	2-4		PoE+	A	30W	
PoE Ethernet Extenders							
EO2PSE4052-111 & EO2PD4052-111	(1) 10/100/1000Base RJ-45/SFP Combo Port + (1) 1000Base-T RJ-45 Port or 2-Wire Terminal Block	2	X	PoE+	A/B ³	30W	
EOCPSE4020-110 & EOCPD4020-110	(1) 100/1000Base RJ-45/SFP Port + (1) 1000Base Coax BNC Port	2	X	PoE+	A/B ³	30W	
		Port Count	Managed	DHCP Per Port	PoE Level	PoE Mode	PoE Power Budget
PoE Switches							
Enterprise Switches							
SM8TAT2SA	(8) 10/100/1000Base-T PoE+ ports and (2) 100/1000Base-X SFP slots	10	X		PoE+ ²	A	130W
SM8TAT2SA-DC	(8) 10/100/1000Base-T PoE+ ports and (2) 100/1000Base-X SFP slots DC-Powered	10	X		PoE+ ²	A	130W
SM16TAT2SA	(16) 10/100/1000Base-T PoE+ ports and (2) 100/1000Base-X SFP slots	18	X		PoE+ ²	A	250W
SM24TBT2DPA	(24) 10/100/1000Base-T PoE++ ports and (2) 100/1000Base-X SFP/RJ-45 combo ports	26	X	X	PoE++	A+B	820W/ 1640W
SM24TAT2SA	(24) 10/100/1000Base-T PoE+ ports and (2) 100/1000Base-X SFP slots	26	X		PoE+ ²	A	370W
SM24TAT4XB	(24) 10/100/1000Base-T PoE+ Ports and (4) 1G/10G SFP Slots	28	X		PoE+ ²	A	370W
SM48TAT4XA-RP	(48) 10/100/1000Base-T PoE+ Ports and (4) 1G/10G SFP Slots	52	X	X	PoE+ ²	A	820W/ 1640W
Hardened Switches							
SESPM1040-541-LT-xx Series	(4) 10/100/1000Base-T PoE++ ports and (1) 10/100/1000Base-T or 100/1000Base-X SFP combo port + optional ports	4-6	X		PoE++	A+B	≤240W
SISPM1040-362-LRT	(4) 10/100/1000Base-T PoE+ ports + (2) 10/100/1000Base-T RJ-45 and (2) 100/1000Base-X SFP slots	8	X	X	PoE+	A	120W
SISPM1040-582-LRT	(8) 10/100/1000Base-T PoE++ ports and (2) 100/1000Base-T or 100/1000Base-X SFP/RJ-45 combo ports	8	X	X	PoE++	A	480W
SISPM1040-384-LRT-C	(8) 10/100/1000Base-T PoE+ ports and (4) 100/1000Base-X SFP slots	12	X	X	PoE+	A	240W
SISPM1040-3166-L	(16) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Slots + (2) 1G/10GBase-X SFP+ Slots	22	X	X	PoE+	A	250W
SISPM1040-3248-L	(24) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Slots + (4) 1G/10GBase-X SFP+ Slots	32	X	X	PoE+	A	370W

¹User selectable

²PoE+ not available on all ports simultaneously

³PoE Mode determined by power sourcing equipment

Managed Hardened Gigabit Ethernet PoE+ Switch

(8) 10/100/1000Base-T Ports + (4) 100/1000Base-X SFP Slots



The SISPM1040-384-LRT-C is a managed PoE+ switch suitable for connecting and powering devices in hardened environments. The switch can supply up to 30 Watts per port on all (8) ports simultaneously. The switch also includes the embedded Device Management System (DMS) software that provides the advanced tools necessary for total management of all IP addressable devices. The unique DMS provides security integrators with lower overall cost, less downtime and easier management of the entire PoE+ network.

Transition Networks' hardened switches are certified to operate reliably in harsh environments such as those found on factory floors, outdoor enclosures or other challenging environments.

Features

- Store-and-Forward Architecture with 24 Gbps Switching Bandwidth
- Supports Jumbo frames up to 9.6K Bytes
- Ring Protections
 - Industry standard G.8032 Ethernet Ring Protection Switching (ERPS)
 - Support G.8031 Ethernet Linear Protection Switching (EPS)
 - Rapid Ring with recovery time less than 20ms
- Radius, TACACS+, User Authentication
- Supports LLDP Protocol
- HTTPS/SSH v1/v2 Network Security
- Temperature Detection and Alarm
- Support HW Watchdog to resume operation from CPU hang up
- IEEE 1588 v2 PTP
- Port Mirroring
- Power-over-Ethernet
 - Port Configuration
 - Auto Power Reset (APR)
 - DHCP per Port
 - Always on PoE
 - PoE Scheduling
 - Complies to IEEE 802.3at, IEEE 802.3af
- IEEE 802.3ad LACP, up to 6 groups and up to 4 ports per group
- Up to 4K VLAN groups, Port based, IEEE 802.1Q tag, Q-in-Q, MAC based VLAN, Management VLAN, Private VLAN Edge, Voice VLAN, GVRP
- ACL - up to 256 entries, Drop or Rate limiting based on: Source and Destinations MAC, VLAN ID and IP address, protocol, port, DSCP/IP precedence, TCP/UDP source and destination ports, IEEE 802.1p priority, Ethernet type, ICMP packets and TCP flag

Specifications

Standards	IEEE 802.3 IEEE 802.3z IEEE 802.3x IEEE 802.1p IEEE 802.1w IEEE 802.1X IEEE 802.1ad IEEE 802.3at IEEE 802.1ag IEEE 1588 v2 ITU-T G.8031 IEC62439-2	IEEE 802.3u IEEE 802.3ab IEEE 802.3ad IEEE 802.1Q IEEE 802.1s IEEE 802.1AB IEEE 802.3af IEEE 802.3ah IEEE 802.1D ITU-T Y.1731 ITU-T G.8032
MAC Address	8K	
Backplane	24Gbps	
Serial Console	RJ-45	
Status LEDs	System, Power1, Ring Master, Coupling, Power2, Alarm, Port Status	
Dimensions	Width: 2.4" [62 mm] Depth: 5.3" [135 mm] Height: 5.4" [130 mm]	
DIP Switch (2-pin)	Rapid Ring setting	
Reset button	Reset the switch, Restore Factory default	
Digital output (relay)	24VDC/1A	
Digital input	Level 0 (Low): 0V to 6V Level 1 (High): 10V to 24V	
Power Input	48 - 57VDC; redundant inputs	
Power Consumption Without PoE	11.1 Watts	
Power-over-Ethernet	Total PoE Budget: 240 Watts 30 Watts output on all 8 ports simultaneously	
Ingress Protection	IP30	
Environment	Operating: -40°C to +75°C Storage: -40°C to 85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.	
Weight	2.2 lbs. [1 kg]	
Certifications	EMI: CE, FCC Part 15, EN61000-4-2, EN61000-4-3, EN-61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration), NEMA TS-2 Safety: IEC60950-1, UL Class 1/Div 2	
Compliant* (Designed to Meet)	EN50155, EN50121-4, DNV, IEC61850-3, IEEE1613	
Warranty	5 Years	

*Please [contact sales](#) with certification needs

Device Management System (DMS)

- Graphical Monitoring – Topology view, Floor view, Map view
- Traffic Monitoring
- Troubleshooting – Network diagnostic, protection mechanism, performance and link management

Ordering Information

SISPM1040-384-LRT-C

(8) 10/100/1000Base-T PoE+ [100 m/328 ft.] ports + (4) 100/1000Base-X SFP slots (Din Rail Bracket included)

Optional Accessories (sold separately)

SFP Modules

EDCA-DIO-01

Enclosure Door Contact Alarm

OCA-P181610

18x16x10" Polycarbonate Enclosure

Industrial Power Supplies (sold separately)

25104

Input: 88-264 VAC, 124-370 VDC
Output: 48~55 VDC, 5.0A, 240 Watts

25160

Input 90-264 VAC, 127-370 VDC
Output: 48 ~ 55 VDC, 10A, 480 Watts

PS-DC-DUAL Series

Input: 100-240 VAC, Dual 56VDC + 12 or 24V output

Mounting Brackets (sold separately)

WMBH-01

Wall Mount Bracket

DRBH-01

Din Rail Bracket

Features (Continued)

- Loop Protection
- Quality of Service
 - Supports 8 hardware queues
 - Scheduling: strict priority and WRR, Queue assignment based on DSCP and class of service
 - Classification: Port based, IEEE 802.1p VLAN priority based, IPv4/IPv6 precedence /DSCP based, DiffServ, Classification and re-marking ACLs
 - Rate limiting: Ingress policer, Egress shaping and rate control, per port
- IPv4/IPv6 dual stacks and static routing
- Port Security, IP Source Guard
- System Alarms via SYSLOG / SNMP Trap
- DHCP Client/Server, DHCP relay, Option 82
- Port based network access control (IEEE 802.1X)
- Web / SNMP v1,v2c,v3 / Telnet / CLI management
- Media Redundancy Protocol (MRP)