



PoE Switches





PSG-7484XM / PSG-7484XM-RP

- 48-Port 10M/100M/1Gbps PoE+
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- IEEE 802.3at/af PoE, up to 30W per port
- Static Route
- IEEE 1588v2 Precision Time Protocol(Optional)
- Layer 2+ Full Managed Software Features
- DHCP Server/Relay/Snooping/Voice VLAN
- Energy Efficient Ethernet (IEEE 802.3az)
- PD Alive auto discovery
- Hot Swap Redundant Power Module

Order Information

Model No.	PSU	PoE Budget
PSG-7484XM-470W	1 x 470W	430W
PSG-7484XM-940W	2 x 470W	860W
PSG-7484XM-520W	1 x 520W	450W
PSG-7484XM-600W	1 x 600W	540W
PSG-7484XM-RP600W	2 x 600W	540W
PSG-7484XM-CS1200W	2 x 600W	1140W
PSG-7484XM-920W	1 x 920W	860W
PSG-7484XM-RP920W	2 x 920W	860W
PSG-7484XM-CS1840W	2 x 920W	1440W
PSG-7484XM-1200W	1 x 1200W	1140W
PSG-7484XM-RP1200W	2 x 1200W	1140W
PSG-7484XM-CS2400W	2 x 1200W	1440W

PSG-72404XM Series



- 24-Port 10M/100M/1Gbps PoE+
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- IEEE 802.3at PoE & IEEE 802.3bt PoE
- Static Route
- IEEE 1588v2 Precision Time Protocol(Optional)
- Virtual Stacking
- DHCP Server/Relay/Snooping
- Voice VLAN/PD Alive Check
- Hot Swap Redundant Power Module
- Fan-less Models Available



Model No.	No. of Ports	PoE Ports	SFP+ Ports	PoE Budget
PSG-72404XM-8BT PSG-72404XM-8BT-RP	28 Ports	8x 1G(802.3bt) + 16x 1G(802.3at)	4x 10Gbps	450W 540/860/1140/1200W (RP)
PSG-72404XM-4BT PSG-72404XM-4BT-RP	28 Ports	4x 1G(802.3bt) + 20x 1G(802.3at)	4x 10Gbps	450W 540/860/960W (RP)
PSG-72404XM PSG-72404XM-RP	28 Ports	24x 1G(802.3at)	4x 10Gbps	450W 540/720W (RP)

Note: FL: Fan-less / **RP:** Redundant Power

Why Redundant Power solution

Load-Sharing

Distributing the workload between two power modules to increase the power module life time and providing continuous uptime.

Redundant Power

Automatically senses internal power failure and another power module will immediately begins to supply power to the device, keep the system running without device reboot.

Hot-Swap

Replacement plugged in-- While the system remains up and running and without interrupting the rest of the system.



10G L2 Full Managed PoE Switch



XGP-78402M



- 8-Port 100M/1G/2.5G/5G/10Gbps Copper/PSE
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- 2-Port 10M/100M/1Gbps Copper
- Static Route
- IEEE 802.3at/af PoE, up to 30W per port
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- PD Alive Check
- Virtual Stacking
- PoE Power Budget : 180W/240W
- System Power Consumption : Max. 50 Watt (TBD)
- Operating Temperature : 0~50°C
- Storage Temperature : -20 ~ 80°C
- Dimension (W x H x D) : 440 x 44 x 220 mm

PSM-6802XM Series



- 8-Port 100M/1G/2.5Gbps PoE+
- 2-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- Static Route
- IEEE 1588v2 Precision Time Protocol(Optional)
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- PD Alive Check



Model No.	No. of Ports	PoE Ports	SFP+ Ports	PoE Budget
PSM-6802XM-BT	10 Ports	8x 2.5Gbps (802.3bt)	2x 10Gbps	180/240W
PSM-6802XM	10 Ports	8x 2.5Gbps (802.3at)	2x 10Gbps	240W

PSG-60802XM Series



- 8-Port 10M/100M/1Gbps PoE+
- 2-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- Static Route
- IEEE 1588v2 Precision Time Protocol(Optional)
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, TACAS+, and ACL
- DHCP Server/Relay/Snooping/PD Alive Check






Model No.	No. of Ports	PoE Port	SFP+ Port	PoE Budget
PSG-60802XM-8BT	10 Ports	8x 1G(802.3bt)	2x 10Gbps	180/240W
PSG-60802XM-4BT	10 Ports	4x 1G(802.3bt) + 4x 1G(802.3at)	2x 10Gbps	180/240W
PSG-60802XM	10 Ports	8x 1G(802.3at)	2x 10Gbps	180/240W

L2+ Full Management Gigabit PoE Switches



- 8 / 16 / 24-Port 10M/100M/1Gbps PoE+
- 2 Gigabit SFP/RJ45 Combo Ports
- IEEE 802.3at/af PoE, up to 30W per port
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN for VoIP devices
- PD Alive Check & PoE Scheduling
- Virtual Stacking
- Automatically adjust Fan speed function
- Fan-less Models Available

Model No.	No. of Ports	PoE Port	SFP/RJ45 Combo Port	PoE Budget	Product Photo
PSG-7028VM / (-FL)	26 Ports	24 PSE	2 Combo Ports	210/270/420/450W 120/210/300W (FL)	
PSG-6020VM / (-FL)	18 Ports	16 PSE	2 Combo Ports	120/210/270W 120/210W (FL)	
PSG-6012VM / (-FL)	10 Ports	8 PSE	2 Combo Ports	120/210/240W 120/210W (FL)	

Note: FL: Fan-less

PSG-72404VM Series



- 24-Port 10M/100M/1Gbps PoE+ with 2 SFP/RJ45 Combo Ports (Port 23/24)
- 2-Port 100M/1Gbps SFP Slot
- IEEE 802.3at PoE & IEEE 802.3bt PoE
- Static Route
- DHCP Server/Relay/Snooping/Voice VLAN
- PD Alive Check & PoE Scheduling
- Hot Swap Redundant Power Module
- Fan-less Models Available



Model No.	No. of Ports	PoE Ports	SFP Ports	PoE Budget
PSG-72404VM-8BT / (-FL) PSG-72404VM-8BT-RP	26 Ports	8x 1G(802.3bt) + 16x 1G(802.3at) (with 2 SFP/RJ45 Combo)	2x 1Gbps	210/270/450W 120/210/300W (FL) 540/860/1140/1200W (RP)
PSG-72404VM-4BT / (-FL) PSG-72404VM-4BT-RP	26 Ports	4x 1G(802.3bt) + 20x 1G(802.3at) (with 2 SFP/RJ45 Combo)	2x 1Gbps	210/270/450W 120/210/300W (FL) 540/860/960W (RP)
PSG-72404VM / (-FL) PSG-72404VM-RP	26 Ports	24 x 1G(802.3at) (with 2 SFP/RJ45 Combo)	2x 1Gbps	210/270/450W 120/210/300W (FL) 540/720W (RP)

Note: FL: Fan-less / RP: Redundant Power

PSG-50822VM Series



- 8-Port 10M/100M/1Gbps PoE+
- 2-Port 10M/100M/1Gbps Copper
- 2-Port 1Gbps SFP Slot
- IEEE 802.3at PoE & IEEE 802.3bt PoE
- Offers Web-based Configuration and Management
- Powerful L2 Features
- Support 9.6KB Jumbo Frame
- 802.3az energy-efficient Ethernet support
- Rack-Mount Metal Case
- Operating Temperature: 0 to 50°C
- Fan-less Models Available
- Dimension (HxWxD): 44x266x160 mm / 44x330x210mm



Model No.	No. of Ports	PoE Ports	RJ45/SFP Ports	PoE Budget
PSG-50822VM / (-FL)	12 Ports	8x 1G(802.3at)	2x 1Gbps RJ45 + 2x 1Gbps SFP	90/180/240W 120/210W (FL)
PSG-50822VM-4BT	12 Ports	4x 1G(802.3bt) + 4x 1G(802.3at)	2x 1Gbps RJ45 + 2x 1Gbps SFP	180/240W
PSG-60822VM-4BT	12 Ports	4x 1G(802.3bt) + 4x 1G(802.3at)	2x 1Gbps RJ45 + 2x 1Gbps SFP	450W

Note: FL: Fan-less



PS-7244VM3 PS-7164VM3

16 / 24x 1Gbps Copper/PSE + 4x 1Gbps SFP L2 Web Managed PoE Switch



- 16 / 24-Port 10M/100M/1Gbps PoE+
- 4-Port 1Gbps SFP Slot
- IEEE 802.3at, up to 30W per port
- Offers Web-based Configuration and Management
- Powerful L2 features
- Support 9.6KB Jumbo Frame
- 802.3az energy-efficient Ethernet support



Model No.	No. of Ports	PoE Ports	PoE Budget	Product Photo
PS-7244VM3	24 Ports	24 PSE (with 4 SFP/RJ45 Combo)	165/240/420W	
PS-7164VM3	16 Ports	16 PSE (with 4 SFP/RJ45 Combo)	175/250/420W	

PoE Gigabit Injector



PS-201G-BT4



1-Port Gigabit IEEE 802.3bt Injector

- 1 Ethernet Input Port (Data Only)
- 1 Ethernet Output Port (Data + Power)
- Compliant with IEEE 802.3bt, Output Power up to 90W

PS-201G++

1-Port Gigabit LTPoE++ Injector

- 1 Ethernet Input Port (Data Only)
- 1 Ethernet Output Port (Data + Power)
- Compliant with LTPoE++, Output Power up to 90W

PS-201G-V2

1-Port Gigabit IEEE 802.3af/at Injector

- 1 Ethernet Input Port (Data Only)
- 1 Ethernet Output Port (Data + Power)
- Compliant with IEEE 802.3af/at, Output Power up to 30 watt

PoE+ Extender



PSD-311G

2-Port Gigabit PoE+ Extender

- 1-Port PoE IN and 1-Port PoE Out
- Extending distance for another 100M per extender and cascading for longer distances
- Compatible with IEEE 802.3af/at
- Wall mountable
- Operating Temperature: 0°C ~ 50°C

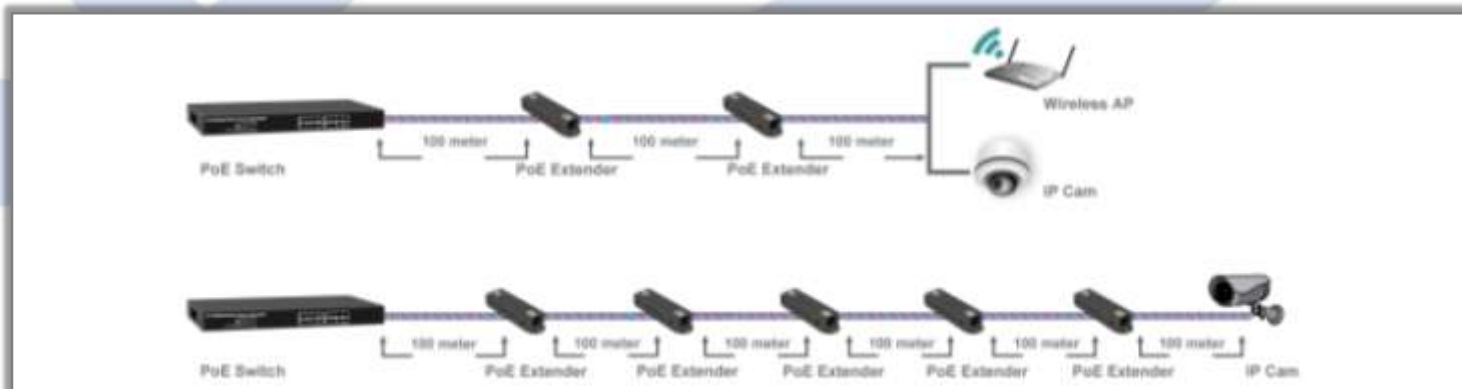


IGE-2200P



Industrial 2-Port Gigabit PoE+ Extender

- 1-Port PoE IN and 1-Port PoE Out
- Extending distance for another 100-meter per extender
- Compatible with IEEE 802.3af/at
- Rigid Metal case
- Ingress protection to IP31
- Build for harsh environments
- Wall mountable
- Operating Temperature: -40°C ~ 75°C








AV Switches



L2+ Full Management Gigabit PoE AV Switches






- 8 / 16 / 24-Port 10/100/1000M PoE
- 2-Port Gigabit SFP
- IEEE 802.3at/af PoE, up to 30W per port
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN for VoIP devices
- PD Alive Check & PoE Scheduling
- Virtual Stacking
- Automatically adjust Fan speed function

Model No.	No. of Ports	PoE Port	SFP	PoE Power Budget	Product Photo
PSG-7026VM-R	26 Ports	24 PSE	2 x 1Gbps SFP	430 Watts	
PSG-6018VM-R	18 Ports	16 PSE	2 x 1Gbps SFP	230 Watts	
PSG-6010VM-R	10 Ports	8 PSE	2 x 1Gbps SFP	110 Watts	

L2+ Full Management Gigabit AV Switches



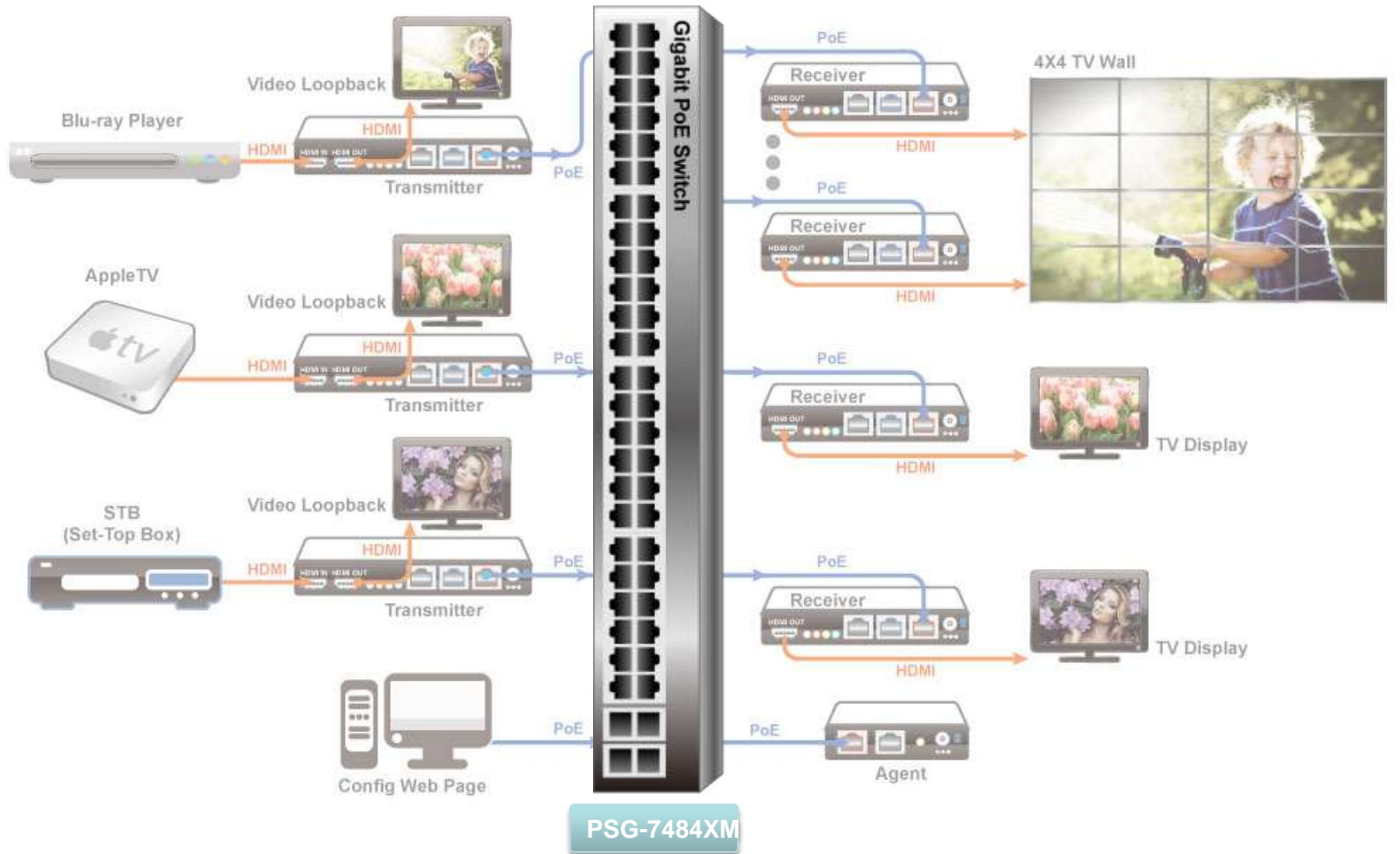
- 8 / 16 / 24-port 10/100/1000M RJ45
- 2-Port Gigabit SFP
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- Virtual Stacking

Model No.	No. of Ports	RJ45 Port	SFP Port	Product Photo
EWG-7026VM-R	26 Ports	24 x 1Gbps RJ45	2 x 1Gbps SFP	
EWG-6018VM-R	18 Ports	16 x 1Gbps RJ45	2 x 1Gbps SFP	
EWG-6010VM-R	10 Ports	8 x 1Gbps RJ45	2 x 1Gbps SFP	

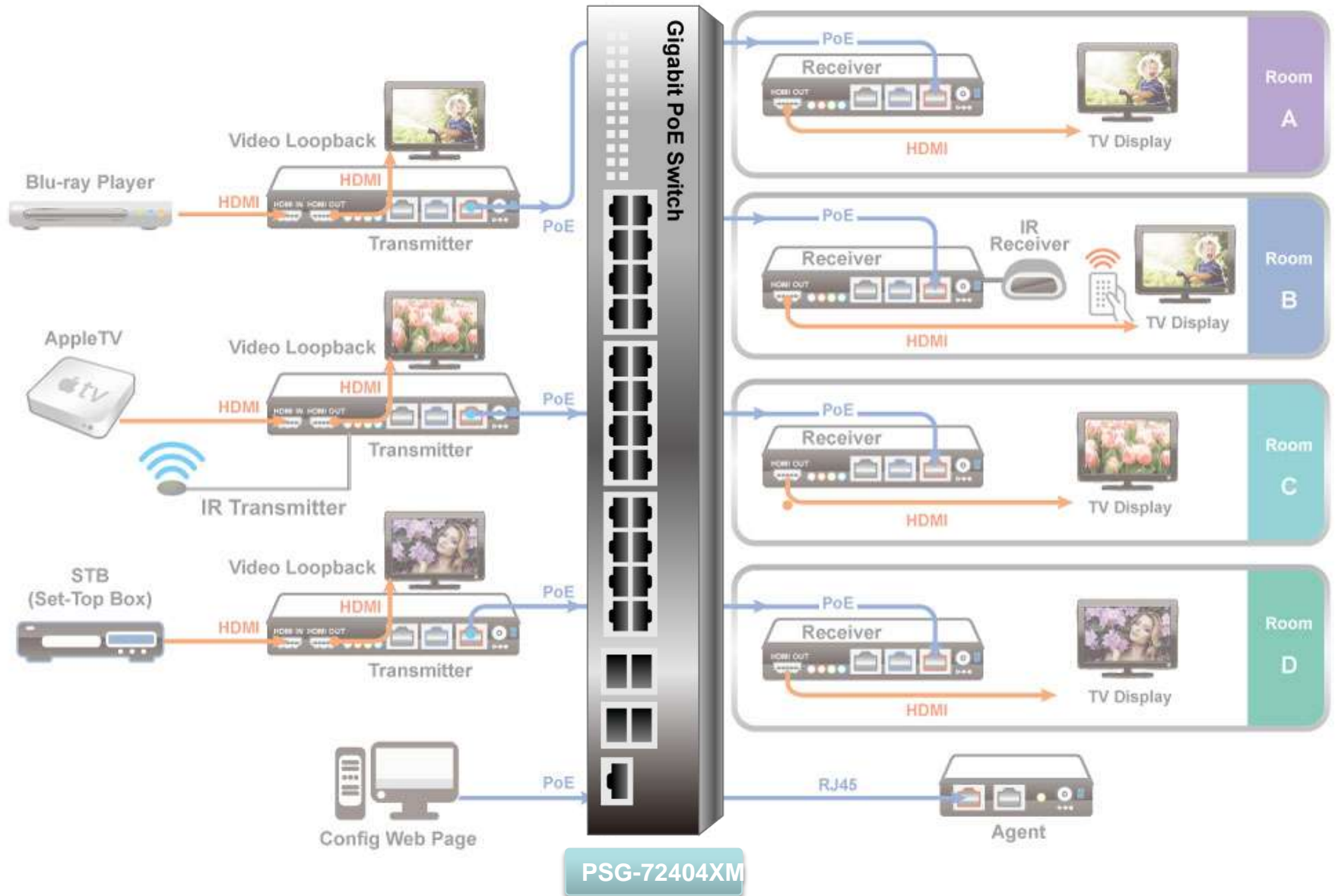
AV switches Application



AV switches Business Application



Media Streaming Residential Application



Media Streaming AV switches

 **CRESTRON**[®]

ASPEED

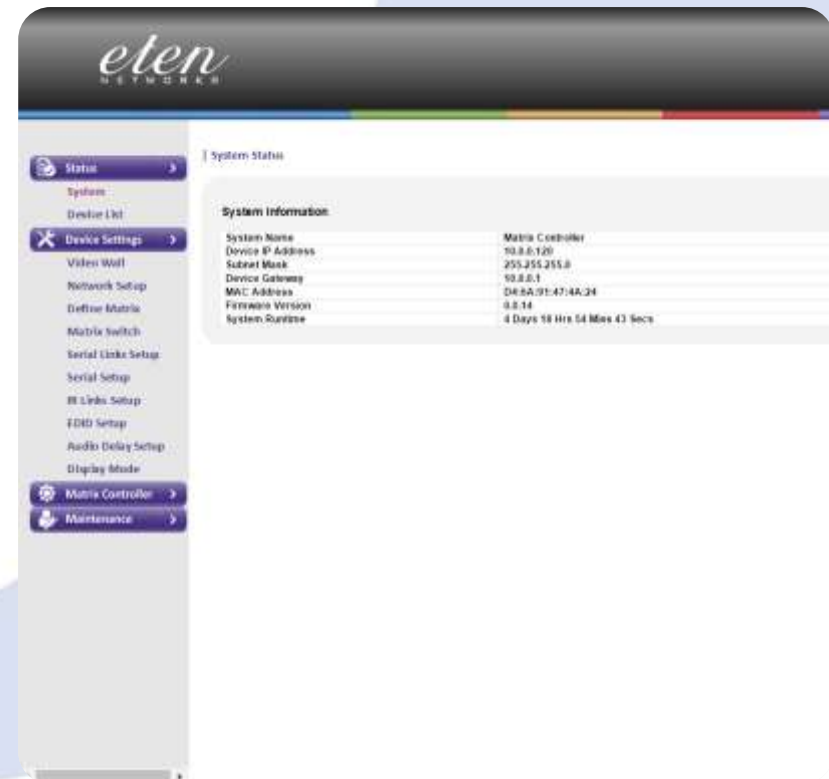
Grandbeing
WORLD BEYOND IMAGINATION



Media Streaming AV switches GUI



The screenshot shows the 'Video Wall' configuration page in the eten GUI. The left sidebar contains navigation options: Status, Device Settings, Matrix Controller, and Maintenance. Under 'Device Settings', there are sub-menus for Video Wall, Network Setup, Define Matrix, Matrix Switch, Serial Links Setup, Serial Setup, B Links Setup, EDID Setup, Audio Delay Setup, and Display Mode. The main content area is titled 'Video Wall' and features two status indicators: 'ON-Line' (green) and 'OFF-Line' (grey). Below these are two rows of device icons. The first row contains seven icons, each labeled 'DECin-ap-av-2C-00-02' through 'av-2C-00-08'. The second row contains a 3x3 grid of icons, each labeled 'DECin-ap-av-2A-00-01' through 'av-2A-00-09'. An 'Apply' button is located at the bottom left of the main content area.



The screenshot shows the 'System Status' page in the eten GUI. The left sidebar contains navigation options: Status, Device Settings, Matrix Controller, and Maintenance. Under 'Device Settings', there are sub-menus for Video Wall, Network Setup, Define Matrix, Matrix Switch, Serial Links Setup, Serial Setup, B Links Setup, EDID Setup, Audio Delay Setup, and Display Mode. The main content area is titled 'System Status' and features a 'System Information' section with the following data:

System Information	
System Name	Matrix Controller
Device IP Address	10.0.0.120
Subnet Mask	255.255.255.0
Device Gateway	10.0.0.1
MAC Address	04:0A:01:47:4A:24
Firmware Version	0.0.14
System Uptime	4 Days 18 Hrs 54 Mins 43 Secs

eten Complete Solutions



Cloud

Cloud Management



PD Alive

PD Alive function



PoE
Scheduling

PoE Scheduling



DHCP
SERVER

DHCP Server by VLAN



Voice VLAN

Voice VLAN



PoE
Power Budget

PoE Power Management



Virtual
Stacking

Virtual /Physically Stacking



Auto-Variable
Speed Fan

Auto-Variable Speed Fan

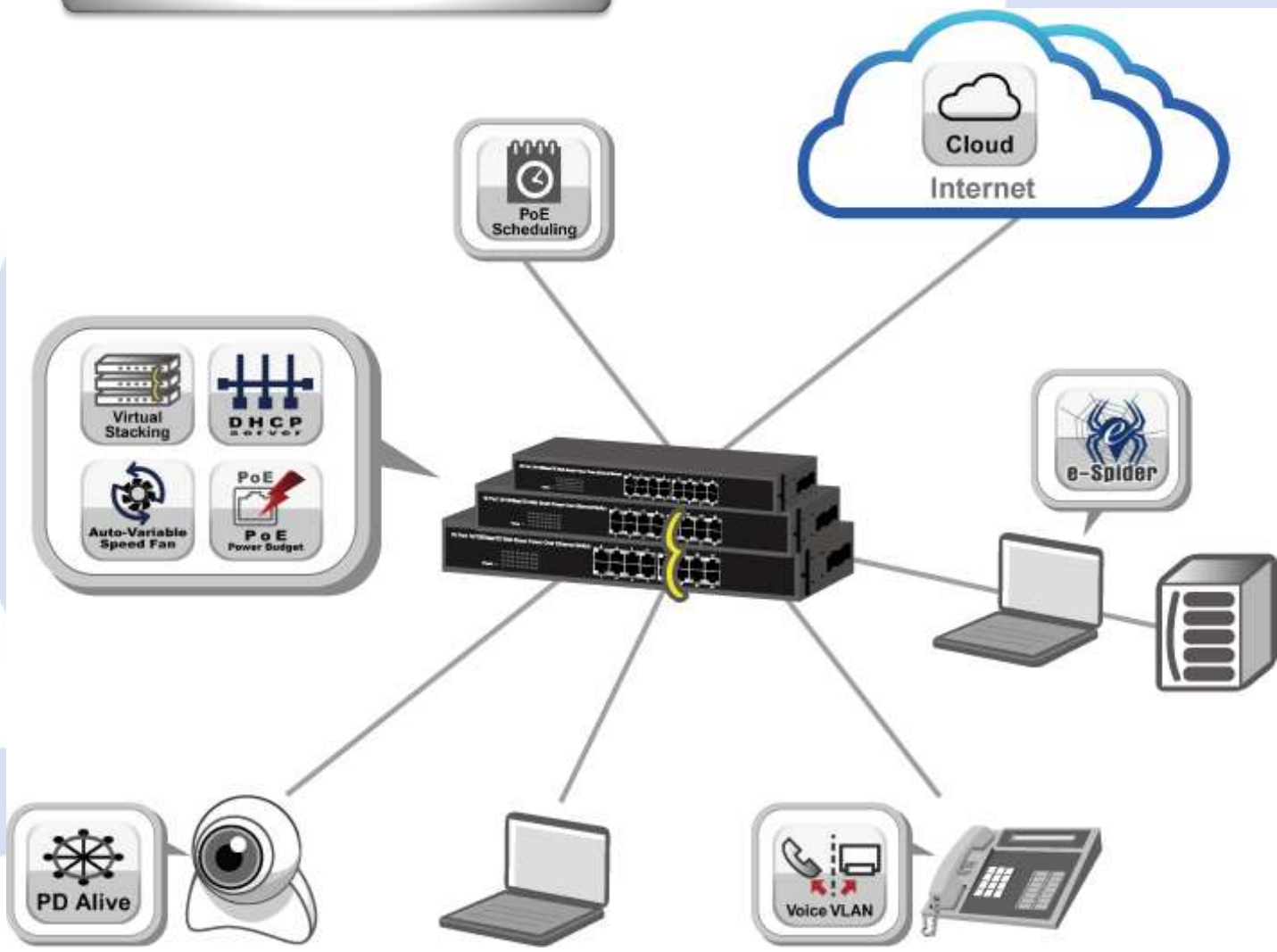


e-Spider

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Application

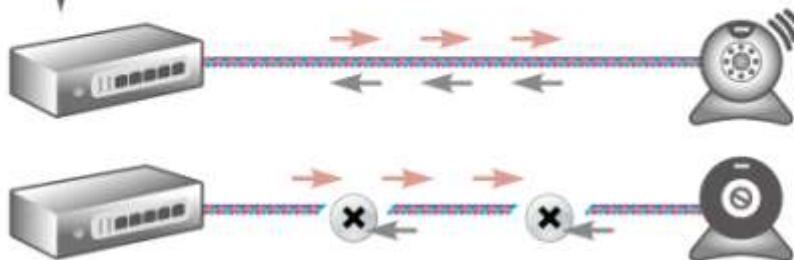




PD Alive function

Detecting interval time, retry count and boot time can be set manually

Port	PoE Mode	Priority	Maximum Power [W]	PD Alive Enable	PD IP Address	Interval Time(5~30s)	Retry Count(1~6)	PD Boot Time(10~180s)
1	PoE+	Low	15.4	Enable	192.168.2.112	5	2	10
2	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10



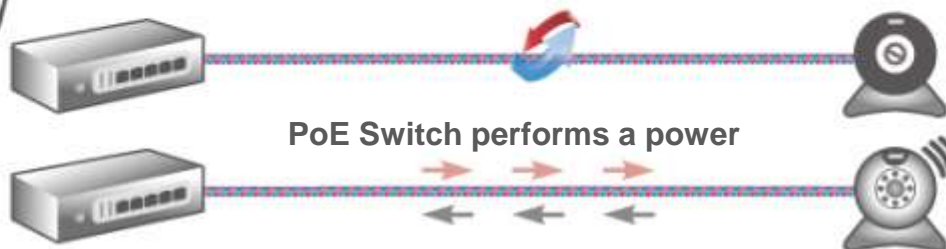
PoE Switch detecting IP CAM in set interval

IP CAM not replying in set number of times

ID	Level	Time	Message
83	Warning	1970-01-01T04:23:43+00:00	PD Alive/Power cycle(Port 1)
84	Info	1970-01-01T04:24:00+00:00	Link down on port 5
85	Warning	1970-01-01T04:24:03+00:00	PD Alive/Power cycle(Port 1)
86	Info	1970-01-01T04:24:07+00:00	Link up on port 5
87	Warning	1970-01-01T04:24:23+00:00	PD Alive/Power cycle(Port 1)
88	Info	1970-01-01T04:24:46+00:00	Link down on port 5
89	Info	1970-01-01T04:24:49+00:00	Link up on port 4

Power cycle events are recorded via system log

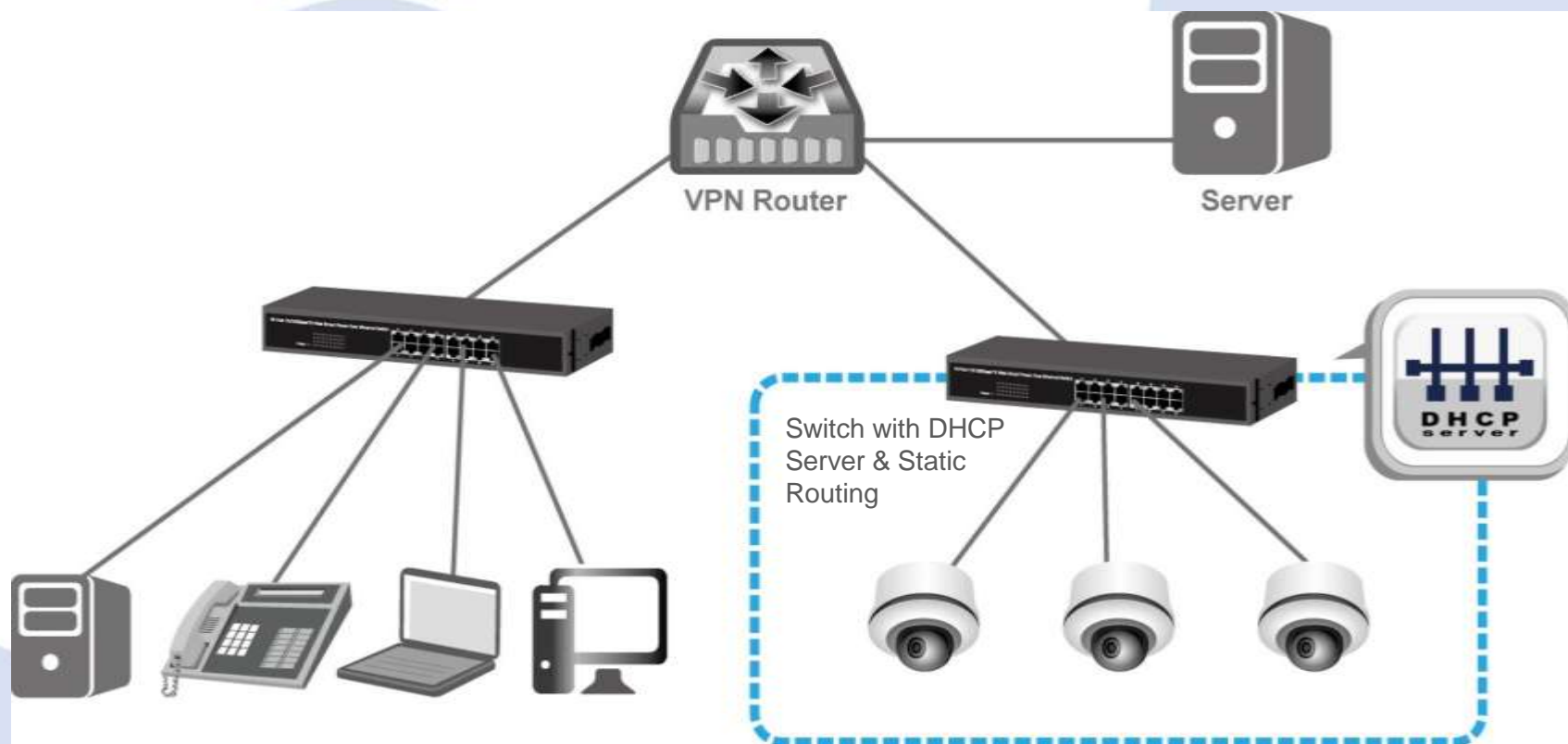
IP CAM resumes functioning normally and sends replies to PoE Switch



PoE Switch performs a power



DHCP Server by VLAN



Office User with Internet Access
192.168.1.X

Internal Security User without Internet Access
192.168.2.X



PoE Power Management

PoE Power Configuration/Control

Power Over Ethernet Configuration

Reserved Power determined by	<input checked="" type="radio"/> Class	<input type="radio"/> Allocation	<input type="radio"/> LLDP-MED
Power Management Mode	<input checked="" type="radio"/> Actual Consumption	<input type="radio"/> Reserved Power	

PoE power can be reserved by:

- Class
- Allocation
- LLDP-MED

PoE Power Supply Configuration

Primary Power Supply [W]	120
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Power Management Mode:

- Actual Consumption
- Reserved Power

PoE Port Configuration

Port	PoE Mode	Priority	Maximum Power [W]	PD Alive Enable	PD IP Address	Interval Time(5~30s)	Retry Count(1~6)	PD Boot Time(10~180s)
*	<>	<>	15.4	<>	0.0.0.0	<>	<>	<>
1	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10
2	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10
3	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10
4	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10
5	PoE+	Low	15.4	Disable	0.0.0.0	5	1	10
6	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10
7	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10
8	PoE+	Low	15.4	Disable	0.0.0.0	5	2	10

Save Reset



PoE Scheduling

Setting PoE Scheduling & Applying to Individual Port



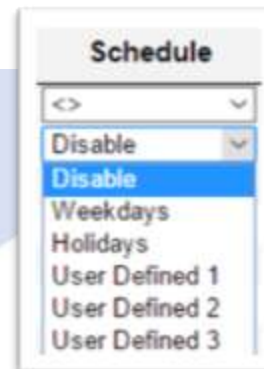
Schedule Scheme Configuration

Name	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Start Time		End Time	
								Hour	Minute	Hour	Minute
Weekdays	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	09	00	18	00
Holidays	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	00	00	23	59
User Defined 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00	00	23	59
User Defined 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00	00	23	59
User Defined 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00	00	23	59

Save Reset

PoE IP CAMs will be powered according to PoE schedule

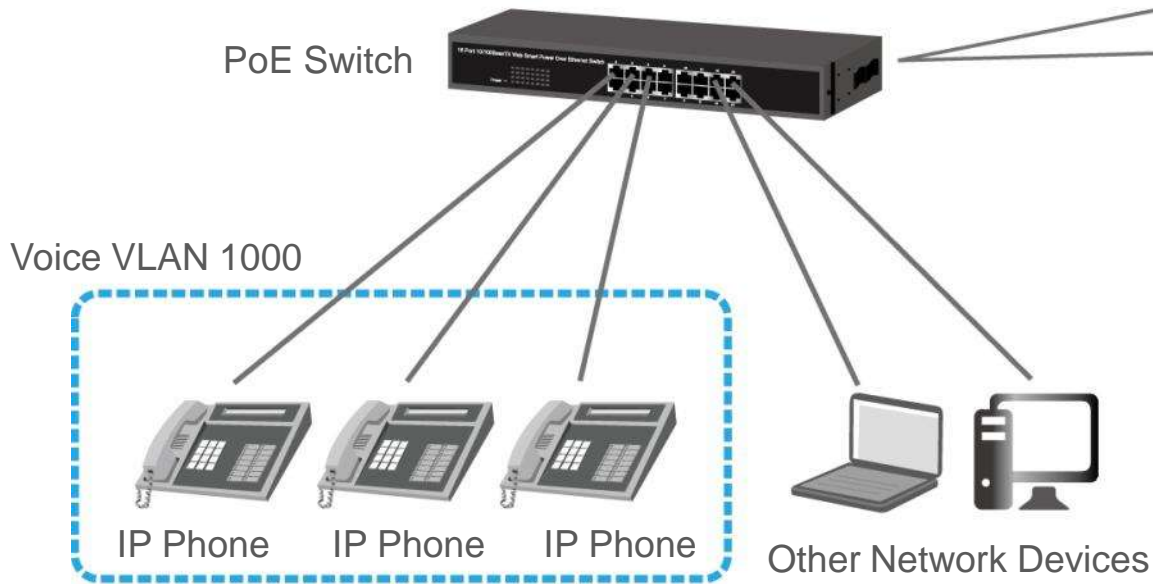
PoE Scheduling						
Sun	Mon.	Tues.	Weds.	Thurs.	Fri.	Sat.
0:00~23:59	9:00~18:00	9:00~18:00	9:00~18:00	9:00~18:00	9:00~18:00	0:00~23:59



PoE scheduling function allows you to make a set of general scheduling rules that can be applied to individual port on the PoE switch, allowing the PDs (Powered Devices, such as IP CAM or wireless AP) only to be powered during the set time period.



Voice VLAN



Voice VLAN Configuration

Mode	Disabled	
VLAN ID	1000	
Aging Time	86400	seconds
Traffic Class	7 (High)	

Port Configuration

Port	Mode	Security	Discovery Protocol
*	<>	<>	<>
1	Disabled	Disabled	OUI
2	Disabled	Disabled	OUI
3	Disabled	Disabled	OUI
4	Disabled	Disabled	OUI
5	Disabled	Disabled	OUI
6	Disabled	Disabled	OUI
7	Disabled	Disabled	OUI
8	Disabled	Disabled	OUI
9	Disabled	Disabled	OUI
10	Disabled	Disabled	OUI

Save Reset

Voice VLAN OUI Table

Delete	Telephony OUI	Description
<input type="checkbox"/>	00-01-e3	Siemens AG phones
<input type="checkbox"/>	00-03-6b	Cisco phones
<input type="checkbox"/>	00-0f-e2	H3C phones
<input type="checkbox"/>	00-60-b9	Philips and NEC AG phones
<input type="checkbox"/>	00-d0-1e	Pingtel phones
<input type="checkbox"/>	00-e0-75	Polycom phones
<input type="checkbox"/>	00-e0-bb	3Com phones

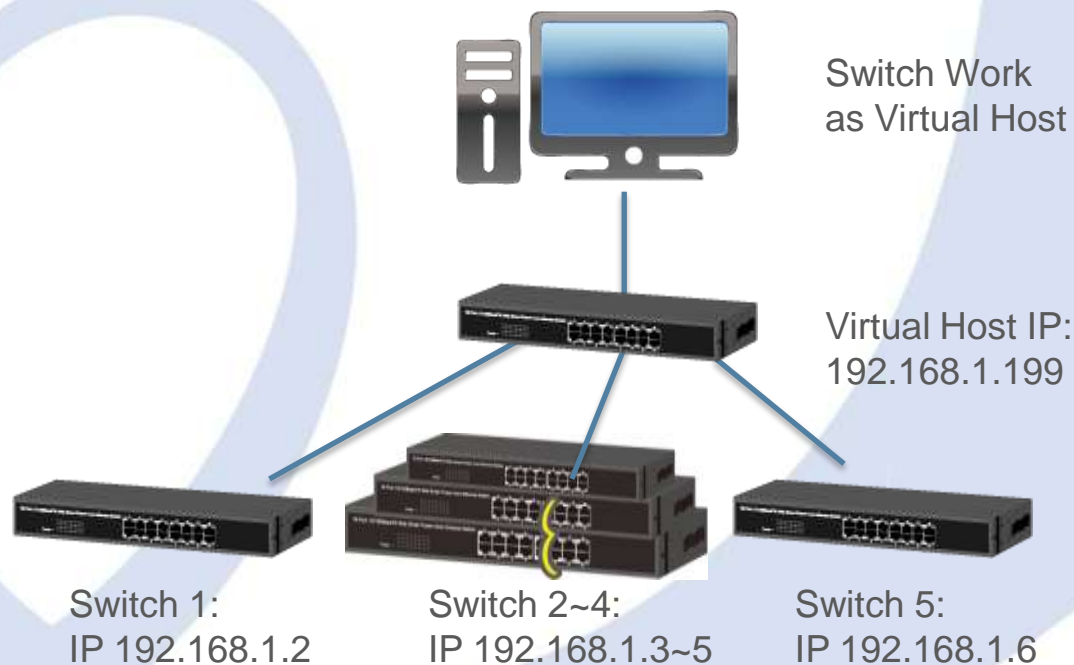
Add New Entry

Save Reset

IP Phones are separated from other network devices via voice VLAN, thus have the top priority when transmitting VoIP data-stream and ensure the quality of the phone communication.



Centralized Network (With Virtual Stacking)

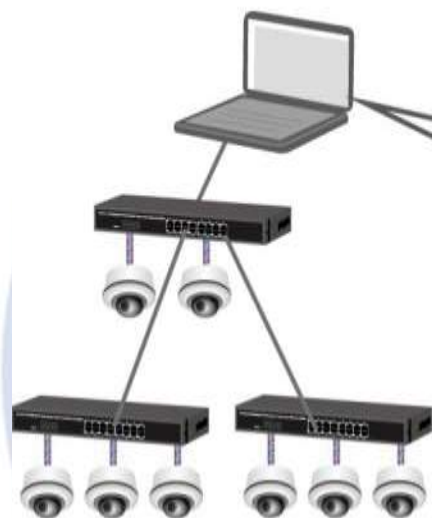


With virtual stacking, all the switches in the network can be accessed via a single IP address (the IP address of the virtual host). There's no need to memorize all the switch's IP address, and all switch managements can be centralized, therefore saving time and effort.



e-Spider

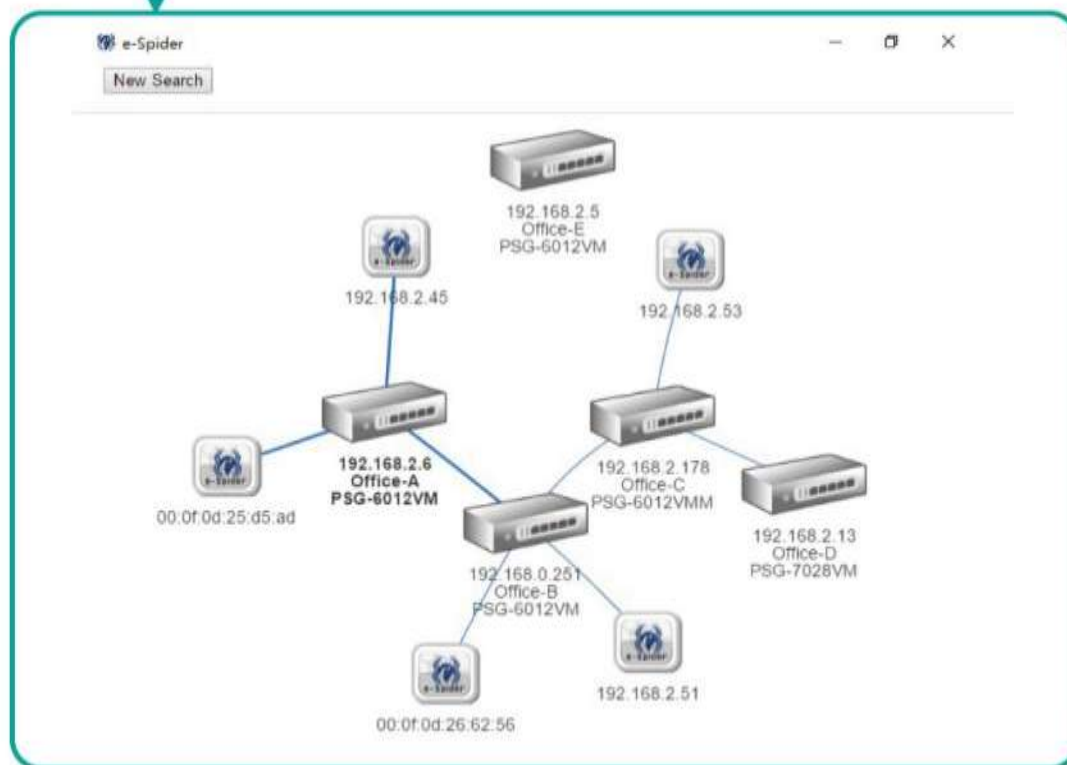
Intelligent Network Deployment & Management



e-Spider

Search **Display Topology**

Model Name	Firmware Version	Device Name	MAC Address	IP Address	IP Setting	Status/Setting
PSG-6012VM	v1.01 2016-05-24	Office-E	00:03:ce:45:1a:3e	192.168.2.5	Setting	Setting
PSG-6012VM	v1.01 2016-05-24	Office-B	00:03:ce:45:6a:9b	192.168.0.251	Setting	Setting
PSG-6012VMM	v1.01 2016-05-24	Office-C	00:03:ce:56:a5:33	192.168.2.178	Setting	Setting
PSG-6012VM	v1.01 2016-05-24	Office-A	00:01:c1:00:00:00	192.168.2.6	Setting	Setting
PSG-7028VM	v1.01 2016-05-24	Office-D	00:03:ce:09:8a:69	192.168.2.13	Setting	Setting



e-spider provides advance solution for intelligent topology, it can diagnosis the systems status.



Network Switches



10G L2 Full Managed Switch



XGE-78402M



- 8-Port 100M/1G/2.5G/5G/10Gbps Copper
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- 2-Port 10M/100M/1Gbps Copper
- Static Route
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- Energy Efficient Ethernet (IEEE 802.3az)
- Operating Temperature : 0~50°C
- Storage Temperature : -20 ~ 80°C
- Dimension (W x H x D) : 440 x 44 x 220 mm

10G L2 Full Managed Switch



XGF-61204M



- 12-Port 1G/2.5G/10Gbps SFP+ Slot
- 4-Port 10M/100M/1Gbps Copper
- Static Route
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- Energy Efficient Ethernet (IEEE 802.3az)
- Operating Temperature : 0~50°C
- Storage Temperature : -20~80°C
- Dimension (W x H x D) : 330 x 44 x 210 mm




Rear Side



XGF-71204M-R-RP



- 12-Port 1G/2.5G/10Gbps SFP+ Slot
- 4-Port 10M/100M/1Gbps Copper
- Static Route
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- Energy Efficient Ethernet (IEEE 802.3az)
- Hot Swap Redundant Power Module
- Operating Temperature : 0~50°C
- Storage Temperature : -20~80°C
- Dimension (W x H x D) : 440 x 44 x 220 mm

10G Un-Management Switches



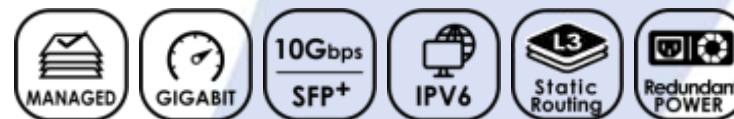
XGE-60804D

- 8-Port 10M/100M/1G/2.5G/5G/10Gbps RJ45
- 4-Port 10Gbps SFP+ Slot
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Non-Blocking Switching Capability
- Internal Power Supply



XGF-51200D

- 12-Port 1G/2.5G/10Gbps SFP+ Slot
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Non-Blocking Switching Capability
- Internal Power Supply



EWG-7484XM / EWG-7484XM-RP

- 48-Port 10M/100M/1Gbps RJ45
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- Static Routing
- IEEE 1588v2 Precision Time Protocol(Optional)
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- Energy Efficient Ethernet (IEEE 802.3az)
- Hot Swap Redundant Power Module

Order Information

Model Name	PSU
EWG-7484XM	1 x Internal Power Supply
EWG-7484XM-RP	2 x Power Module (Redundant)
Note RP: Redundant Power	



EWG-72404XM / EWG-72404XM-RP

- 24-Port 10M/100M/1Gbps RJ45
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- Static Routing
- IEEE 1588v2 Precision Time Protocol(Optional)
- 802.3az Energy Efficient Ethernet
- 128G Non-Blocking Switching Capability
- Layer 2+ Full Managed Software Features
- 4K VLAN, 8 queues QoS, Advanced VLANs
- MSTP, LACP, LLDP, sFlow,
- 802.1X, RADIUS, TACAS+, ACL
- DHCP Server/Relay/Snooping/Voice VLAN
- Hot Swap Redundant Power Module

Order Information

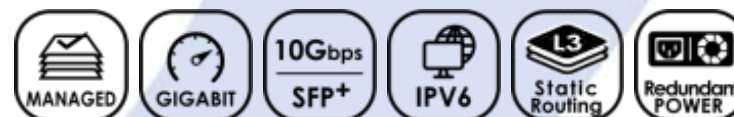
Model Name	PSU
EWG-72404XM	1x Internal Power Supply
EWG-72404XM-RP	2x Power Module (Redundant)
Note RP: Redundant Power	




Rear Side



EWG-72404XM-R-RP

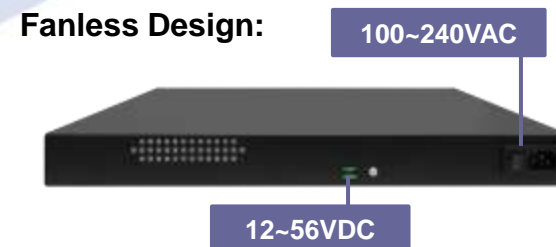


- 24-Port 10M/100M/1Gbps RJ45
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- Static Routing
- IEEE 1588v2 Precision Time Protocol(Optional)
- 802.3az Energy Efficient Ethernet
- 128G Non-Blocking Switching Capability
- Layer 2+ Full Managed Software Features
- 4K VLAN, 8 queues QoS, Advanced VLANs
- MSTP, LACP, LLDP, sFlow,
- 802.1X, RADIUS, TACAS+, ACL
- DHCP Server/Relay/Snooping/Voice VLAN
- Hot Swap Redundant Power Module
- Dimension (W x H x D) : 440 x 44 x 220 mm



FWG-74244XM2

- 24-Port 100M/1Gbps SFP Slot
- 4-Port 10M/100M/1Gbps Copper
- 4-Port 100M/1G/2.5G/10Gbps SFP+ Slot
- Supports Ethernet Ring Protection Switching (ERPSv2)
- Static Route
- IEEE 1588v2 Precision Time Protocol(Optional)
- DHCP Server/Relay/Snooping/Voice VLAN
- Fan-less Models Available



Order Information		
Model Name	Power Input	Operating Temperature
FWG-74244XM2	100~240VAC	0~50°C
FWG-74244XM2-AD	100~240VAC and 12~56VDC	0~50°C
FWG-74244XM2B	100~240VAC	-10~60°C
FWG-74244XM2B-AD	100~240VAC and 12~56VDC	-10~60°C
FWG-74244XM2B-FL	100~240VAC	-10~50°C
FWG-74244XM2B-AD-FL	100~240VAC and 12~56VDC	-10~50°C







Note: FL: Fan-less



EWG-7026VM2

- 22-Port 10M/100M/1Gbps RJ45
- 2 Gigabit 1Gbps RJ45/SFP Combo Ports (Port 23/24)
- 2-Port 100M/1Gbps SFP Slot
- Static Route
- Layer 2+ Full Managed Software Features with MSTP, LACP, LLDP, sFlow, 802.1X, RADIUS, TACAS+, and ACL
- DHCP Server/Relay/Snooping
- Voice VLAN
- IGMP Snooping
- Supports 52G non-blocking switch fabric
- 4K 802.1Q VLAN and advanced Protocol VLAN
- IPv6 Configuration

L2+ Full Management Gigabit Switches

Model No.	No. of Ports	RJ45 Port	SFP Port	Product Photo
EWG-7026VM2	26 Ports	24 x 1Gbps RJ45 (with 2 SFP/RJ45 Combo)	2 x 1Gbps SFP	
EWG-7026VM	26 Ports	24 x 1Gbps RJ45	2 x 1Gbps SFP	
EWG-6018VM	18 Ports	16 x 1Gbps RJ45	2 x 1Gbps SFP	
EWG-6010VM	10 Ports	8 x 1Gbps RJ45	2 x 1Gbps SFP	
EWG-5018VM	18 Ports	16 x 1Gbps RJ45	2 x 1Gbps SFP	
EWG-4802M	10 Ports	8 x 1Gbps RJ45	2 x 1Gbps SFP	



Media Converters

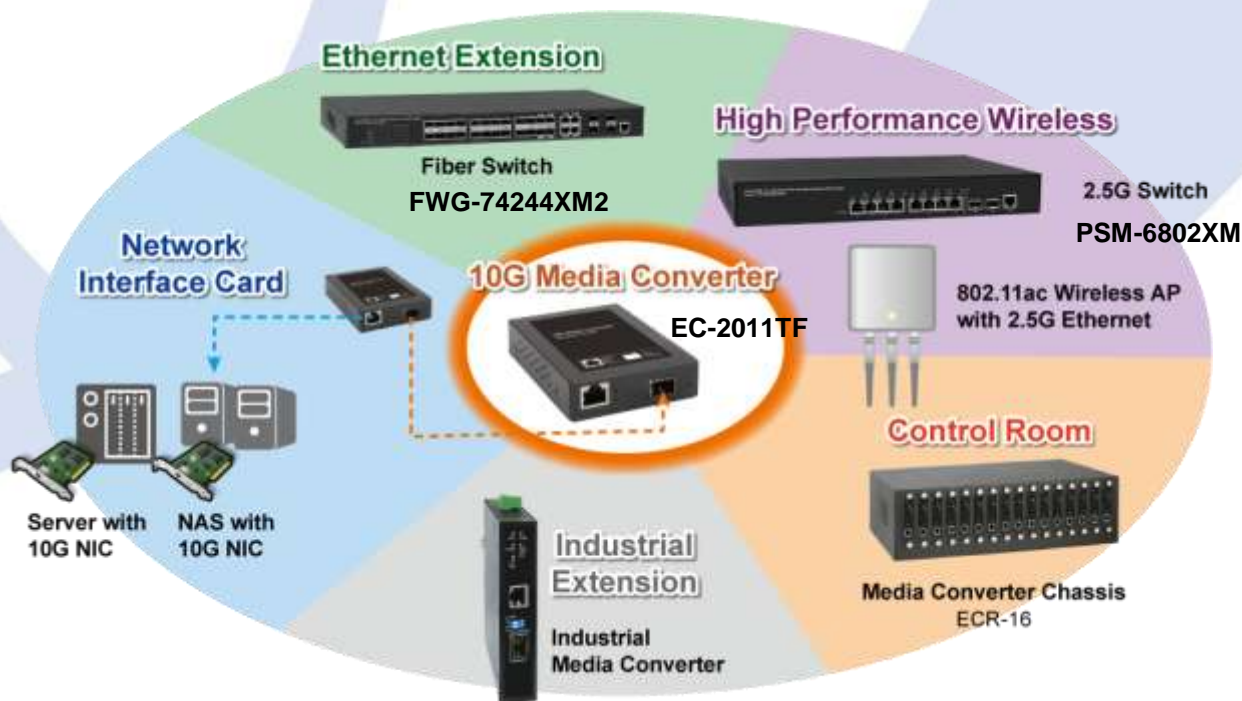





EC-2011TF

10GBase-T to SFP+ Media Converter

- 1 x 10G RJ45 port & 1 x 10G SFP+ Port
- 10G Copper to Optical Converter
- Fiber Fault Alert, providing fault notification to the partner device attached to the 10G Ethernet interface of the media converter
- Transparent for Jumbo Frame & VLAN tagged Packets
- Operating Temperature: 0 to 40°C





Media Converter - 10/100/1000M


Model Name	Wavelength	Media	Distance	TX Power (dBm)	RX Sensitivity (dBm)	Photo
EC-212I – SC, MM	850	MMF	550 m	-9.5 ~ -4	Max. -18	
EC-212I – SC10, SM	1310	SMF	10 km	-9.5 ~ -3	Max. -20	
EC-212I – SC30, SM	1310	SMF	30 km	-4 ~ +3	Max. -23	
EC-212I – LC, MM	850	MMF	550 m	-9.5 ~ -4	Max. -18	
EC-212I – LC10, SM	1310	SMF	10 km	-9.5 ~ -3	Max. -20	
EC-212I – LC30, SM	1310	SMF	30 km	-4 ~ +1	Max. -24	

* ST is subject to request



SFP Media Converter - 10/100/1000M

EC-212IF (1x SFP slot)		EC-212T2F (2 x SFP slot)	
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PoE Media Converter - 10/100/1000M


Model Name	Wavelength	Media	Distance	TX Power (dBm)	RX Sensitivity (dBm)	Photo
PSC-212I – SC, MM	850	MMF	550 m	-9.5 ~ -4	Max. -18	 <p>* LC / ST is subject to request</p>
PSC-212I – SC10, SM	1310	SMF	10 km	-9.5 ~ -3	Max. -20	
PSC-212I – SC30, SM	1310	SMF	30 km	-4 ~ +3	Max. -23	
PDC-212I – SC, MM	850	MMF	550 m	-9.5 ~ -4	Max. -18	
PDC-212I – SC10, SM	1310	SMF	10 km	-9.5 ~ -3	Max. -20	
PDC-212I – SC30, SM	1310	SMF	30 km	-4 ~ +3	Max. -23	

SFP PoE (PSE/PD) Media Converter- 10/100/1000M



PSC-212IF (PSE)		PDC-212IF (PD)	
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EC-202BA/BB

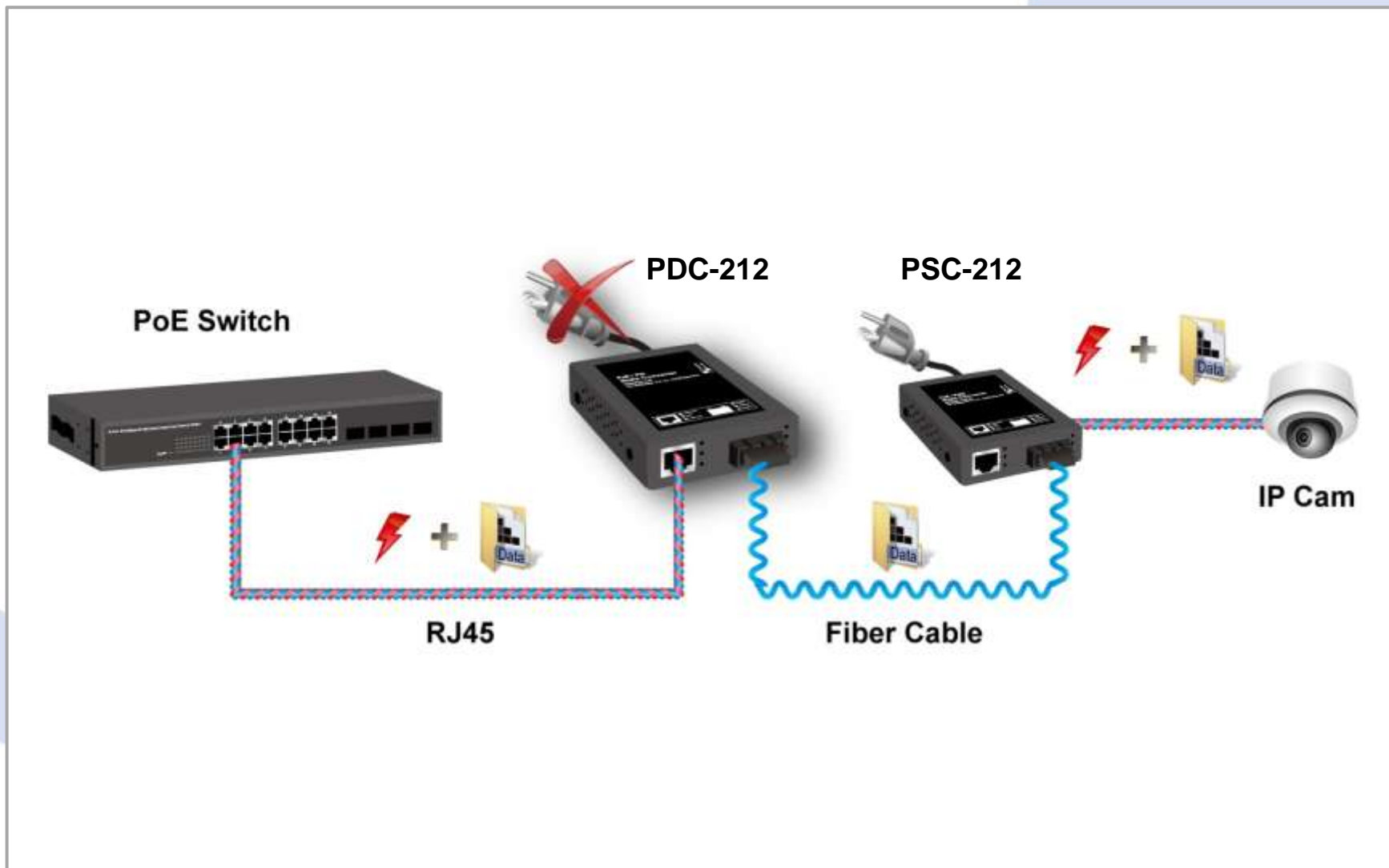
WDM (Wavelength-Division Multiplexing) Series

Model Name	Wavelength	Media	Distance	TX Power (dBm)	RX Sensitivity (dBm)	Photo
EC-202C15BA	TX: 1310nm RX: 1550nm	SMF	15 km	-14 ~ -8	Max. -31	
EC-202C15BB	TX: 1550nm RX: 1310nm	SMF	15 km	-14 ~ -8	Max. -31	
EC-202C25BA	TX: 1310nm RX: 1550nm	SMF	25 km	-9 ~ -3	Max. -31	
EC-202C25BB	TX: 1550nm RX: 1310nm	SMF	25 km	-9 ~ -3	Max. -31	

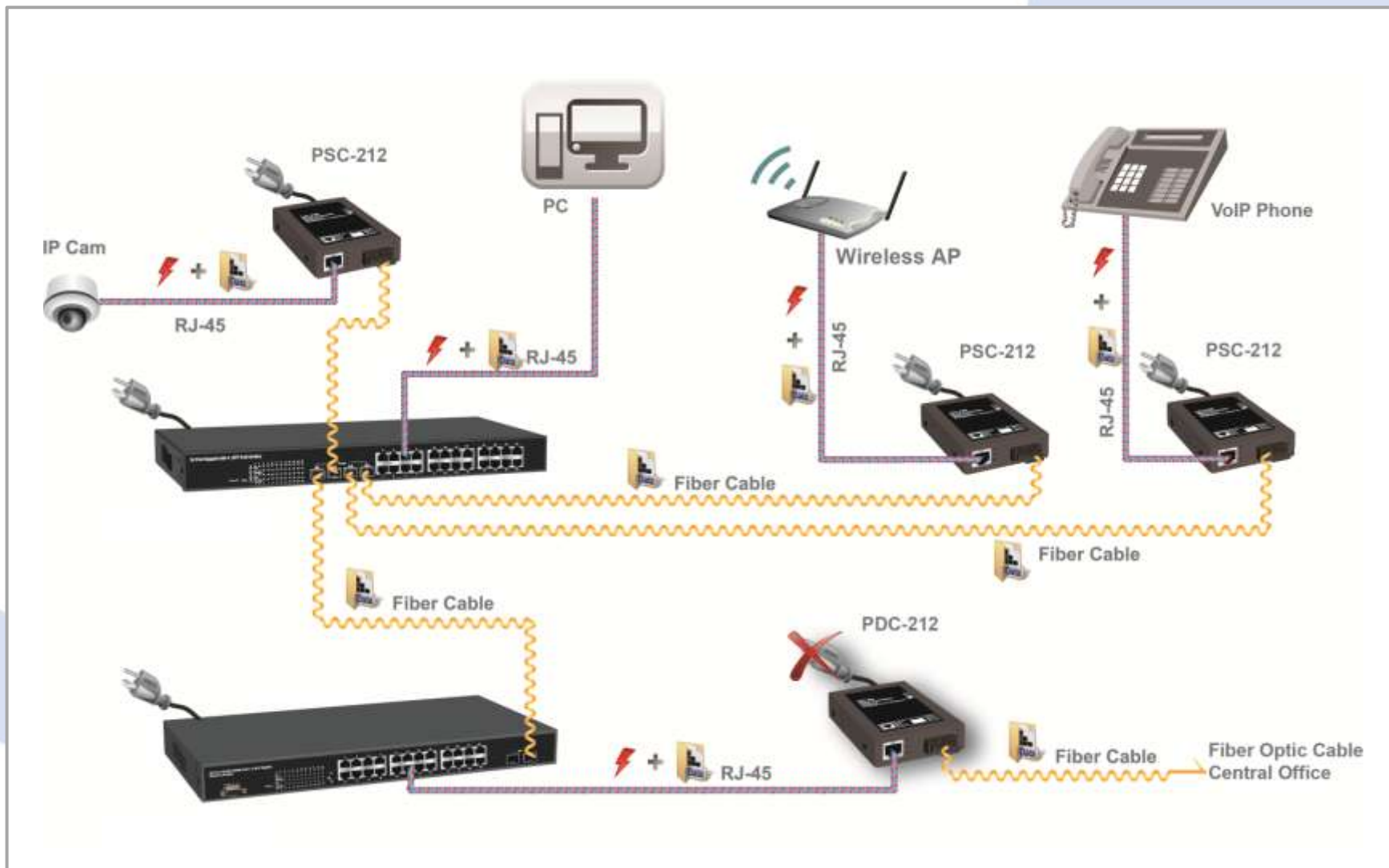
EC-212 Series 1000BaseT to 1000BaseLX Bi-Direction Media Converter

Model Name	Wavelength	Media	Distance	TX Power (dBm)	RX Sensitivity (dBm)	Photo
EC-212C10BA	TX: 1310nm RX: 1550nm	SMF	10 km	-9 ~ -3	Max. -21	
EC-212C10BB	TX: 1550nm RX: 1310nm	SMF	10 km	-9 ~ -3	Max. -21	
EC-212C20BA	TX: 1310nm RX: 1550nm	SMF	20 km	-7 ~ -2	Max. -23	
EC-212C20BB	TX: 1550nm RX: 1310nm	SMF	20 km	-7 ~ -2	Max. -23	
EC-212C40BA	TX: 1310nm RX: 1550nm	SMF	40 km	-3 ~ 2	Max. -23	
EC-212C40BB	TX: 1550nm RX: 1310nm	SMF	40 km	-3 ~ 2	Max. -23	
EC-212C60BA	TX: 1310nm RX: 1550nm	SMF	60 km	0 ~ 5	Max. -24	
EC-212C60BB	TX: 1550nm RX: 1310nm	SMF	60 km	-1 ~ 4	Max. -25	
EC-212C80BA	TX: 1510nm RX: 1570nm	SMF	80 km	-2 ~ 3	Max. -26	
EC-212C80BB	TX: 1570nm RX: 1510nm	SMF	80 km	-3 ~ 3	Max. -27	
EC-212L10BA	TX: 1310nm RX: 1550nm	SMF	10 km	-9.5 ~ -3	Max. -20	
EC-212L10BB	TX: 1550nm RX: 1310nm	SMF	10 km	-9.5 ~ -3	Max. -20	

PoE Media Converter Application



PoE Media Converter Application



Media Converter Chassis For Redundant Power Supply



ECR-16 Chassis



Rear Side



AC Input



DC Input

- Up to 16 slots of Media Converters
- 19" standard rack-mount size and 3U height
- Hot-swappable replacement of Media Converters and power supplies
- Two redundant power supplies with two cooling fans
- Power isolation design to ensure each bay is electrically isolated from others
- AC 110V to DC 5V/12A or DC 48V(Input range 36V~75V) to DC 5V/12A
- Dimension (H*W*D):130 x 440 x 300 mm
- Operating Temperature:0 to 40°C

Model No.	Power Supply	Power Input	
ECR-16-AC	1 x Hot-swappable Redundant	AC 100-240V	
ECR-16-DC	1 x Hot-swappable Redundant	DC 5V/12A	
ECR-16-AC-RP	2 x Hot-swappable Redundant	AC 100-240V	
ECR-16-DC-RP	2 x Hot-swappable Redundant	DC 5V/12A	

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