



EtherWAN

www.etherwan.com

EX78900X series



Agenda



1. Product Overview
2. Features
3. Application
4. Ordering Information

EX78900X series - Overview

Hardened Lite Layer 3 Managed 16-port Gigabit PoE Ethernet Switch

● High speed data transmission

- Full Gigabit bandwidth on all RJ45 ports
- Dual rate 1/10Gigabit connectivity on all SFP fiber ports

● High power PoE

- IEEE 802.3bt compliance, PoE 90W per port with total power budget 360 Watts

● Technical enhancement

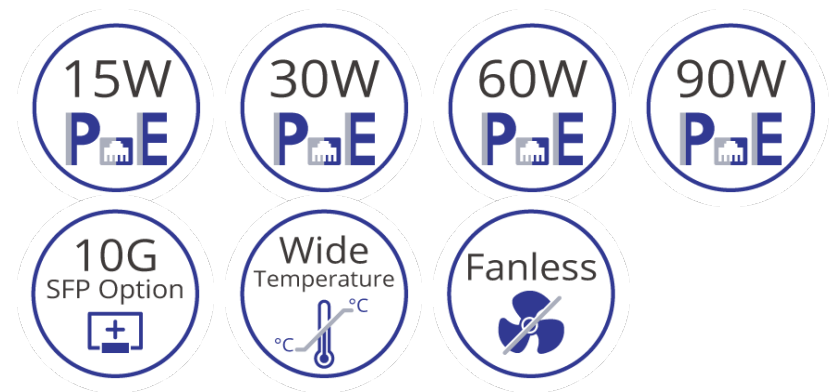
- SFP ports
 - Support Power level III (2 watts) SFP transceiver
 - Support Digital Diagnostics Monitoring (DDM)
- Storm detection and control
- PoE DI (Digital Input)

● Lite Layer 3 functionality

- VRRP, OSFP, RIPv1/v2, Static routing

● Rugged design for harsh environments

- Wide operating temperature -40~75°C
- 6Kv surge protection on PoE



EX78900X series - Outlook

Dimensions: 72mm (W) x 170mm (H) x 140mm (D)

Redundant Power Input
52-57 V DC

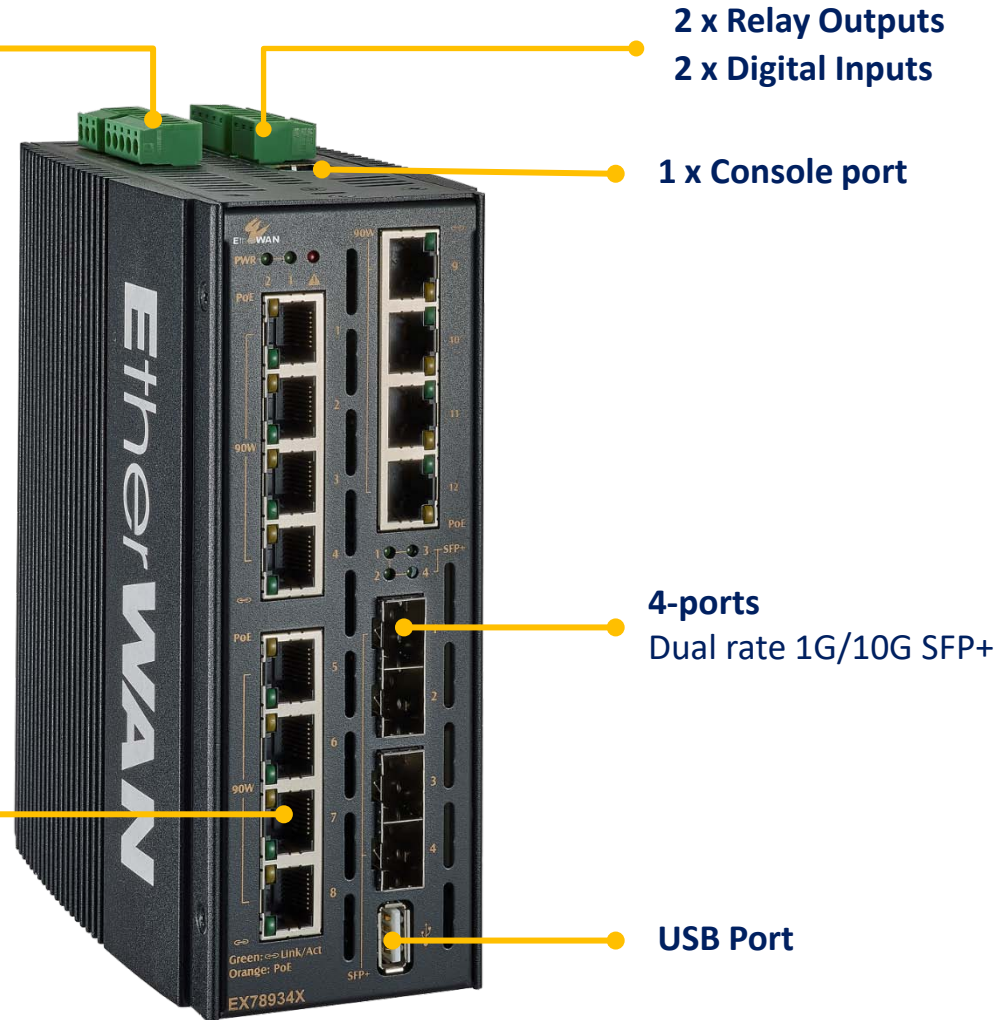
2 x Relay Outputs
2 x Digital Inputs

1 x Console port

12-ports
10/100/1000BASE-T(X)
with IEEE 802.3bt 90W PoE

4-ports
Dual rate 1G/10G SFP+

USB Port



EX78900X series - Key features



- ✓ **IEEE 802.3bt 90W high power PoE**
- ✓ **Built-in EtherWAN intelligent PoE feature set**
- ✓ **Technical enhancement**
 - Supports Power level III (2 watts) SFP transceiver
 - Supports Digital Diagnostics Monitoring (DDM)
 - Storm detection and control
- ✓ **Integrated with EtherWAN DnA solution**

EX78900X series - Key features introduction

IEEE 802.3bt 90W high power PoE



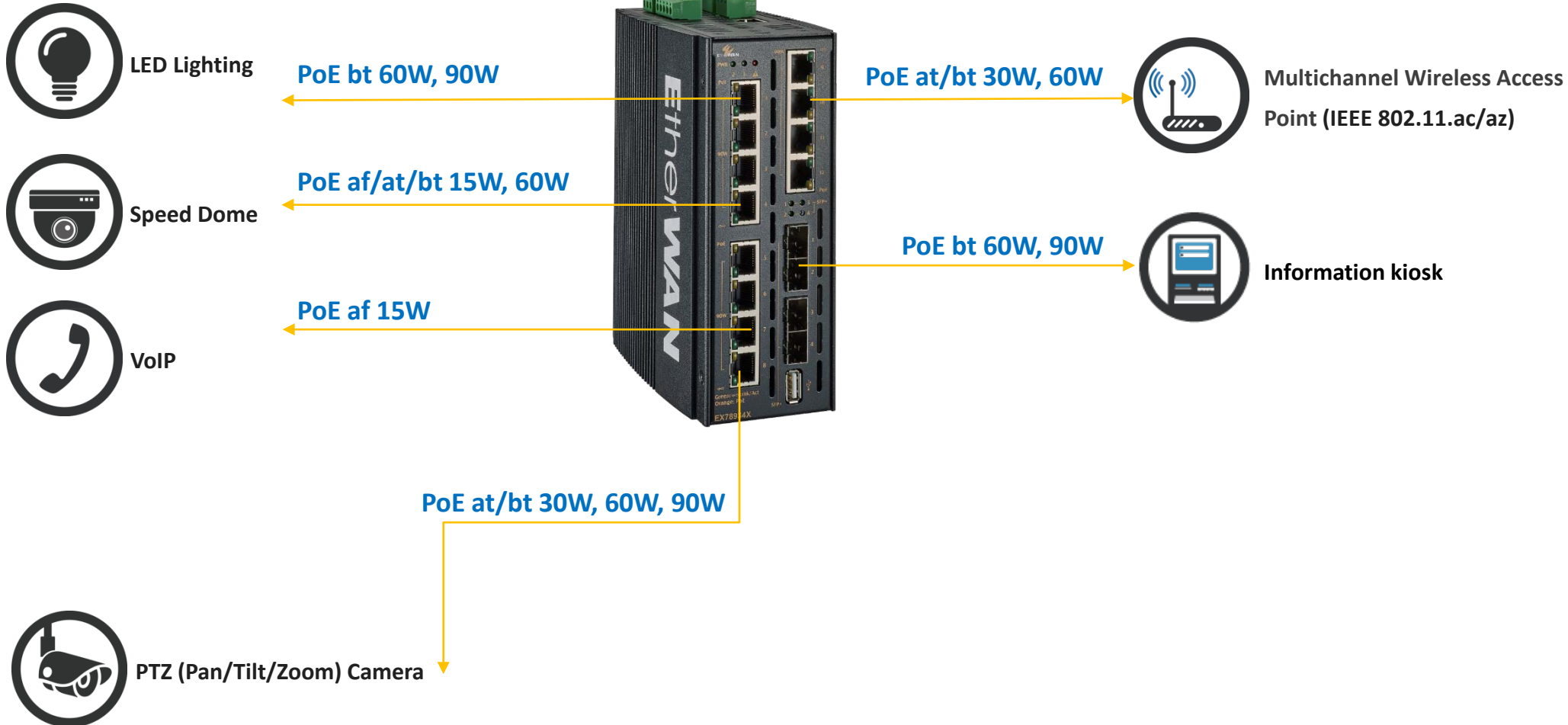
- Compliance with IEEE 802.3af/at/bt standard: Extend power capability to Type 4

Type		PSE Class	➔	PD Class		
4		90W		71W	802.3bt	
		75W		62W		
3		60W		51W	802.3at	
		45W		40W		
	2	30W		25W		802.3af
	1	15W		13W		
		7W		6.5W		
		4W		3.5W		

EX78900X series - Key features introduction



EX78900X delivers high power PoE to various PoE-PD endpoints



EX78900X series - Key features introduction

EtherWAN intelligent PoE feature set



PoE Scheduling allows PoE ports to have their power up time scheduled by hour of the day and day of the week.

PoE Scheduling

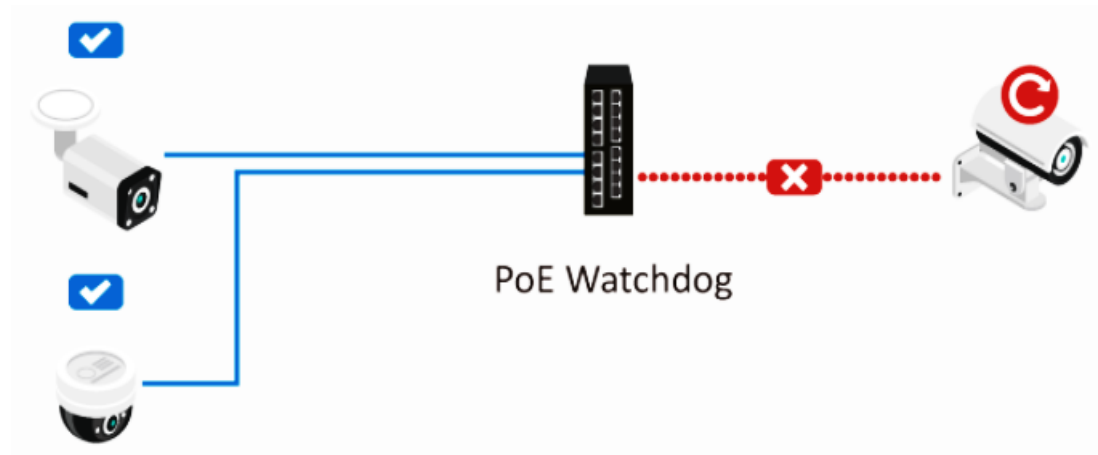
PoE Per Port Scheduling			
Port:	fe1	Status: Not Scheduled	
	fe1	Sun	Mon
00	fe2		
01	fe3		
02	fe4		
03	fe5		
04	fe6		
05	fe7		
06	fe8		
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PoE Watchdog

PoE Watchdog

Automatically check and reboot PD when camera does not respond, allowing the administrator to reduce urgency and frequency of troubleshooting.



EX78900X series - Key features introduction

EtherWAN intelligent PoE feature set

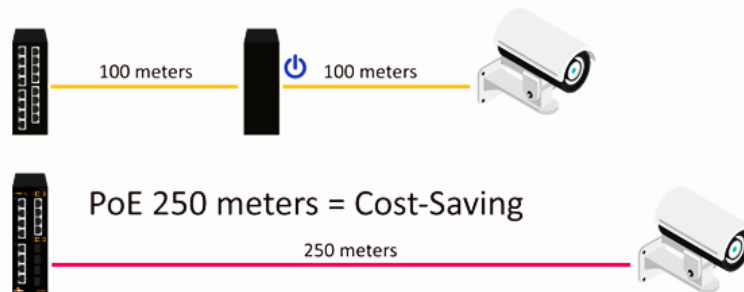


An embedded 6kV surge protection can protect against electronic interference. Each copper port can endure a 6kV surge and protect the equipment at standard deployments.



PoE 250m

When Extend Mode is enabled, a single PoE port can support a transmission distance of 250 meters* with ease-of-use and cost-savings.

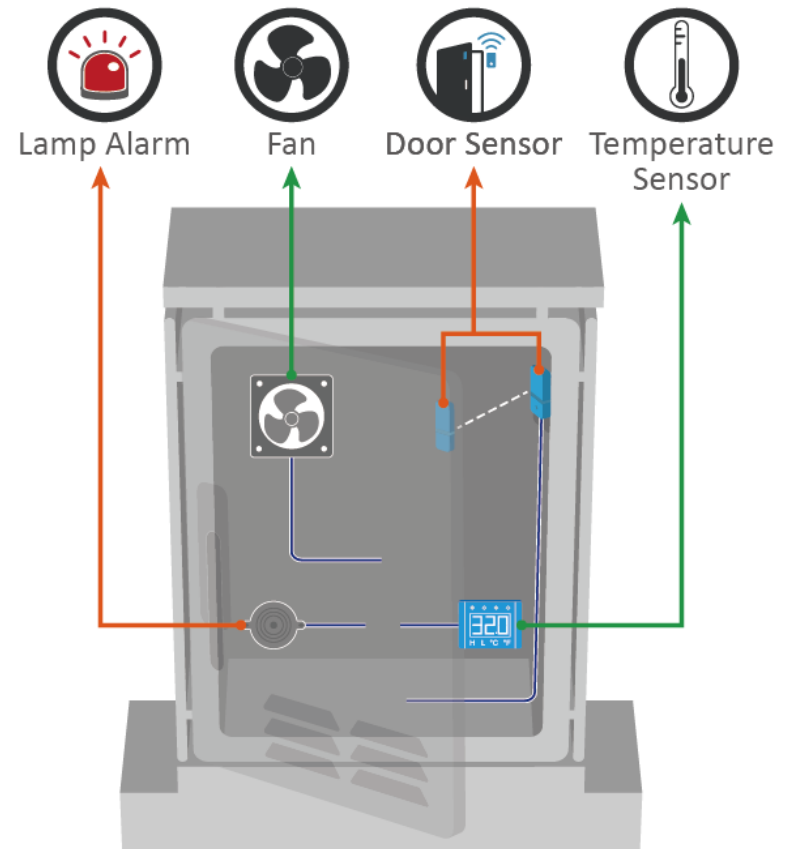


*It is suggested to pre-test the function before deployment. The maximum available transmission distance of PoE depends on the negotiation result of PD and PSE. Some PDs using EtherWAN PoE/PSE switches may only support a standard distance of 100 meters. Contact EtherWAN if assistance is needed.

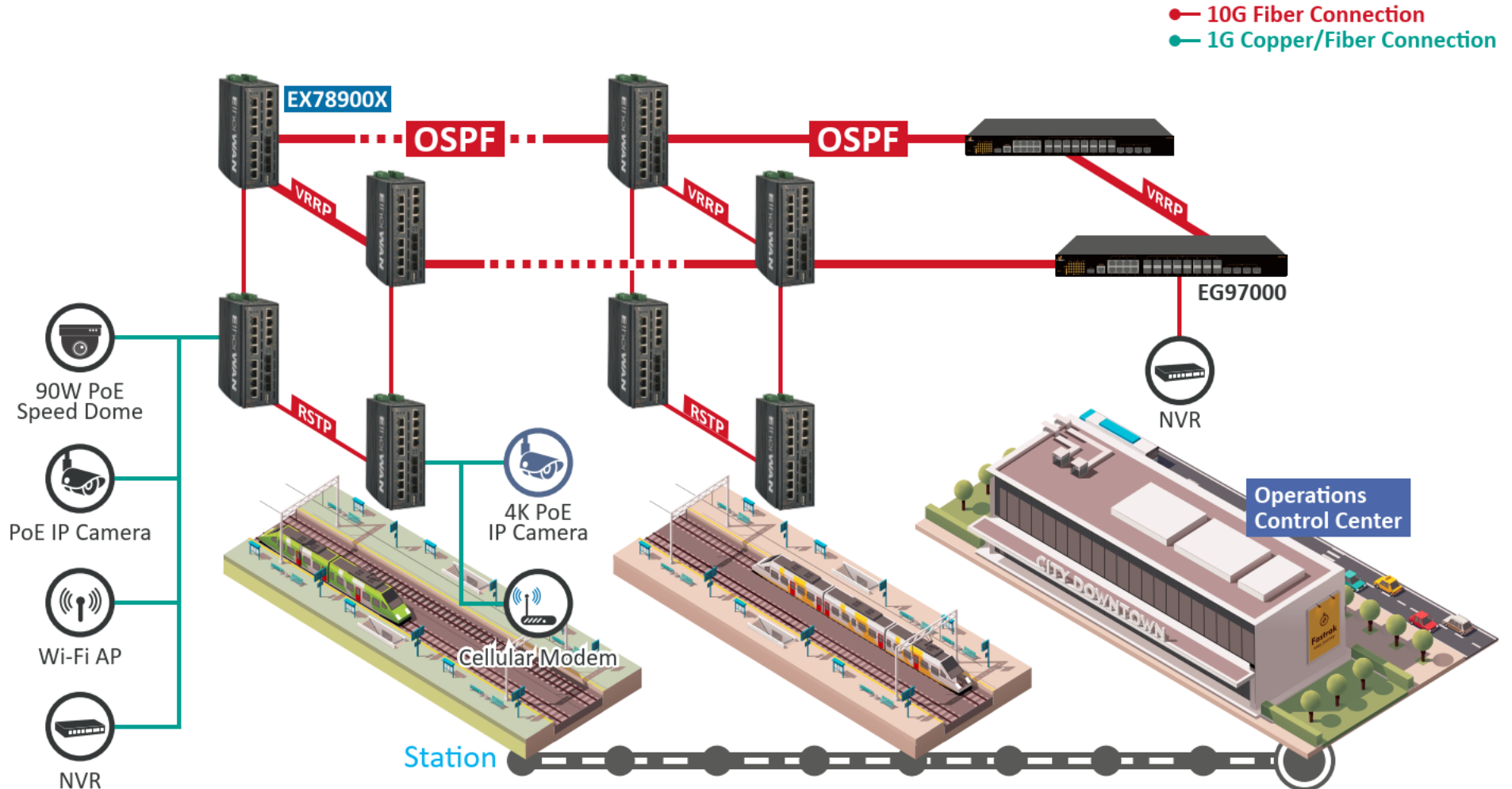
EX78900X series - Key features introduction

Detect and Alert (DnA) solution

Integrated with 2 x Digital Inputs and 2 x Relay Output interfaces for intelligent alarm system & notification



EX78900X series - Application



EX78900X series - Ordering information

✓ Model

– EX78934X:

12-port 10/100/1000BASE-T(X) with 90W PoE + 4-port 1G/10G SFP+

✓ Accessories

- DIN-Rail power supplies
- Gigabit SFP modules
- 10 Gigabit SFP modules

*SFP selection guide is online now! Check [HERE](#)

✓ Management support tools

- Configuration Backup and Restoration Tool: [EB-232](#)
- Network management software: [eVue](#), [eLite](#)

