

Ethernet Connectivity

For IP Security

Technology

Application

Product



- PoE Switches
- SFP Gigabit Ethernet Switches
- Ethernet Extenders
- Media Converters



PoE Ethernet Switches



Commercial Grade

EX17008A/EX17008

Unmanaged / Web-smart 8-port 10/100BASE-TX PoE Ethernet Switch

K **R**

EX17016A/EX17016

Unmanaged / Web-smart 16-port 10/100BASE-TX PoE Ethernet Switch

R

EX17082A/EX17082

Unmanaged / Web-smart 8-port 10/100BASE-TX PoE (IEEE802.3at) and 2-port combo Gigabit SFP Ethernet Switch

R

EX17162A/EX17162

Unmanaged / Web-smart 16-port 10/100BASE-TX PoE and 2-port combo Gigabit SFP Ethernet Switch

R

EX17908A/EX17908

Unmanaged / Web-smart 8-port 10/100/1000 BASE-T PoE (IEEE802.3at) Ethernet Switch

K **R**

EX17242

Web-Smart 24-port 10/100BASE-TX PoE and 2-port combo Gigabit SFP Ethernet Switch

R

EX26182

Managed 16-port 10/100/1000BASE-T PoE (IEEE802.3at) and 2-port SFP Gigabit Ethernet Switch

R

EX26262

Managed 24-port 10/100/1000BASE-T PoE (IEEE802.3at) and 2-port SFP Gigabit Ethernet Switch

R

K Desktop **D** DIN-Rail **P** Panel **R** Rack **S** Shelf **W** Wall

Product Highlight

Model	Max. 100BASE ports			Max. 1000BASE ports			PoE Ports	PoE Power Budget	Management	Power Input	Operating Temp.
	RJ45	Fixed Fiber	SFP	RJ45	Fixed Fiber	SFP					
EX17008A EX17008	8	-	-	-	-	-	8	123W	Unmanaged Web-smart	50/60Hz, 100 – 240AVC	0°C to 45°C
EX17016A EX17016	16	-	-	-	-	-	16	246W	Unmanaged Web-smart	50/60Hz, 100 – 240AVC	0°C to 45°C
EX17082A EX17082	8	-	-	2	-	2	8	240W	Unmanaged Web-smart	50/60Hz, 100 – 240AVC	0°C to 45°C
EX17162A EX17162	16	-	-	2	-	2	16	246W	Unmanaged Web-smart	50/60Hz, 100 – 240AVC	0°C to 45°C
EX17908A EX17908	-	-	-	8	-	-	8	240W	Unmanaged Web-smart	50/60Hz, 100 – 240AVC	0°C to 40°C
EX17242	24	-	-	2	-	2	24	370W	Web-smart	50/60Hz, 100 – 240AVC	0°C to 45°C
EX26182	-	-	-	16	-	2	16	190W	Managed	50/60Hz, 100 – 240AVC	0°C to 45°C
EX26262	-	-	-	24	-	2	24	190W	Managed	50/60Hz, 100 – 240AVC	0°C to 45°C



PoE Ethernet Switches



Industrial Grade

EX46000

Web-smart Hardened 8-port 10/100BASE PoE Ethernet Switch

D P R

EX48000A/EX48000

Unmanaged / Web-smart Hardened 5-port 10/100BASE PoE Ethernet Switch

K W

EX42200

Hardened Unmanaged 5-port 10/100BASE PoE (IEEE802.3at) Ethernet Switch

D

EX49000A/EX49000

Unmanaged / Web-smart Hardened 16-port 10/100BASE PoE (IEEE802.3at) and 2-port combo SFP Gigabit Ethernet Switch

R

EX74000

Managed Hardened 6-port 10/100BASE PoE with 2-port combo SFP (DDM) Gigabit combo Ethernet Switch

P R

EX75000

Managed Hardened 24-port 10/100BASE-TX + 4-port Gigabit PoE (IEEE802.3at) Ethernet Switch

R

EX76000

Managed Hardened 16-port 10/100BASE PoE with 2-port Gigabit combo Ethernet Switch

R

EX78000

Managed Hardened 10-port 10/100BASE (6 x PoE IEEE802.3at) and 2-port Gigabit Ethernet Switch

D P

K Desktop **D** DIN-Rail **P** Panel **R** Rack **S** Shelf **W** Wall

Product Highlight

Model	Max. 100BASE ports			Max. 1000BASE ports			PoE Ports	PoE Power Budget	Management	Power Input	Operating Temp.
	RJ45	Fixed Fiber	SFP	RJ45	Fixed Fiber	SFP					
EX46000	8	2	–	–	–	–	4	62W	Web-smart	47–55 VDC	–40°C to 75°C
EX48000A EX48000	5	1	–	–	–	–	4	62W 120W	Unmanaged Web-smart	47–55 VDC	–40°C to 75°C
EX42200	5	1	–	–	–	–	4	120W	Unmanaged	18–57 VDC	–40°C to 75°C
EX49000A EX49000	16	–	–	2	2	2	16	480W	Unmanaged Web-smart	47–55 VDC	–40 °C to 75°C
EX74000	6	–	–	2	–	2	4	120W	Managed	47–57 VDC	–40°C to 75°C
EX75000	24	–	–	2	2	4	26	420W	Managed	47–57 VDC	–40°C to 75°C
EX78000	8	4	4	2	2	2	8	182W	Managed	47–57 VDC	–40°C to 75°C
EX76000	16	–	–	2	2	–	16	246W	Managed	47–55 VDC	–40°C to 75°C

Core competency of **EtherWAN** in IP Security

- Fully managed, console, web, SNMP, and Telnet
- Rack mount, DIN-Rail mount, Wall mount, Panel mount, and Desktop
- Unique α -Ring topology guarantees recovery time < 15ms
- MAC address filter, IEEE802.1x PNAC, VLAN, and Port mirroring
- Multiple power inputs design, relay contact design for alarm connections
- Complete PoE products and continuous dedication to high-power development
- IGMP snooping for multicast stream IP camera connections, data priority control
- Long distance Ethernet over copper pair or coaxial up to 2.6Km without pulling fiber cables
- -40°C to 85°C up to 72 hours non-stop test to guarantee flawless data transmission in extreme environments

Range of applications



Ethernet Switches



EX42000

Unmanaged Industrial 5-port 10/100BASE Ethernet Switch

D

EX94000

Unmanaged Hardened 5/8-port 10/100BASE Ethernet Switch

D P

EX35000

Unmanaged Industrial 8-port Gigabit Ethernet Switch

D P

EX32900

Unmanaged Industrial 5-port 10/100/1000BASE Ethernet Switch

D

EX42900

Unmanaged Hardened 5-port 10/100/1000BASE Ethernet Switch

D

EX1605PB/PBF1, EX1608PB/PBF1

Unmanaged 5/8-port 10/100BASE Ethernet Switch

W S

EX1616W, EX1624W

Web-Smart 16/24-port 10/100BASE-TX and 1-port 100BASE-FX Ethernet Switch

R

EX65000

Managed Industrial 8-port Gigabit Ethernet Switch

D W

EX71000

Managed Hardened 8-port 10/100BASE and 2-port Gigabit Ethernet Switch with SFP options

D W R

EX73000

Managed Hardened 16-port 10/100BASE with 2-port Gigabit combo Ethernet Switch

D W

EX27000

IEC61850-3/IEEE1613/EN50121-4 Managed 24-port 10/100BASE and 4-port Gigabit Ethernet Switch with combo SFP

R

EX25611

Managed 24-port 10/100/1000BASE-T (4-port SFP combo) and 4-port 1G/10G SFP+ Ethernet Switch

R

K Desktop **D** DIN-Rail **P** Panel **R** Rack **S** Shelf **W** Wall

Product Highlight

Model	Max. 100BASE ports			Max. 1000BASE ports			Max. 10GBASE ports	Management	Power Input	Operating Temp.
	RJ45	Fixed Fiber	SFP	RJ45	Fixed Fiber	SFP	SFP+			
EX32900	–	–	–	5	1	–	–	Unmanaged	12 – 48VDC	–10°C to 60°C
EX42900	–	–	–	5	1	–	–	Unmanaged	12 – 48VDC	–40°C to 75°C
EX42000	5	1	–	–	–	–	–	Unmanaged	12 – 48VDC	–10°C to 60°C
EX94000	8	4	–	–	–	–	–	Unmanaged	12 – 48VDC	–40°C to 75°C
EX35000	–	–	–	8	2	2	–	Unmanaged	12 – 32VDC	–20°C to 60°C
EX1605PB/PBF1 EX1608PB/PBF1	5 8	1	–	–	–	–	–	Unmanaged	12VDC	0°C to 45°C
EX71000	8	4	4	2	2	2	–	Managed	12 – 48VDC	–40°C to 75°C
EX65000	–	–	–	8	2	2	–	Managed	12 – 32VDC	–20°C to 60°C
EX73000	16	4	–	2	2	–	–	Managed	12 – 48VDC	–40°C to 85°C
EX1616W EX1624W	16 24	1	–	–	–	–	–	Web-smart	50/60Hz, 100 – 240VAC	0°C to 45°C
EX27000	24	24	24	4	4	4	–	Managed	50/60Hz, 100 – 240VAC	–10°C to 60°C
EX25611	–	–	–	24	–	4	4	Managed	50/60Hz, 100 – 240VAC	0°C to 40°C

Get Power & Data Right on Ethernet Extension Link

Power over Link™ (PoL) means power and data are transported over a single pair of wires, between two locations. The wire may be a plain old phone cable. EtherWAN has developed a system, consisting of **a pair of devices** that allow a user to connect any PoE powered device to an Ethernet network without supplying power at the end device location. The end device may be up to 400 meters from the network switch and we will connect it at 90Mbps which provides full IEEE802.3af power (15.4W) over a pair of copper wires, or at 100Mbps over coaxial cable which provides IEEE802.3at power (30W).

PoL via copper wires

ED3538

Hardened 10/100BASE-TX PoL/PoE Ethernet Extender over Copper Wires



PoL via coaxial cable

ED3638

Hardened 10/100BASE-TX PoL/PoE Ethernet Extender over Coaxial Cable



 DIN-Rail

Product Highlight

Model	RJ45 Interface	Extender Interface			Max. Distance	Max. Bandwidth	PoE (IEEE802.3at)	Power Input	Operating Temp.
	100BASE	RJ11	TB*	BNC					
ED3538	1	1	1	–	2.2Km	100Mbps	✓	46 – 57VDC	–40°C to 75°C
ED3638	1	–	–	1	2.4Km	100Mbps	✓	46 – 57VDC	–40°C to 75°C

*TB: Terminal Block

Power over Link™ (PoL) Enabled

Data Rate Indicators (Min. Rate)	Typical IP CAM Resolution**	ED3538 Reference performance (a pair of 24 AWG copper wires)		ED3638 Reference performance (RG6 coaxial cable)	
		Distance	PoE Power Output	Distance	PoE Power Output
100Mbps	3 Megapixel (2048 x 1536) 2 Megapixel (1600 x 1200) 1 Megapixel (1280 x 1024) HD or 720P (1280 x 720)	300m (984ft.)	30.0W	400m (1312ft.)	30.0W
80Mbps	2 Megapixel (1600 x 1200) 1 Megapixel (1280 x 1024) HD or 720P (1280 x 720)	400m (1312ft.)	15.4W	600m (1968ft.)	15.4W
60Mbps	2 Megapixel (1600 x 1200) 1 Megapixel (1280 x 1024) HD or 720P (1280 x 720)	600m (1968ft.)	14.0W	800m (2624ft.)	15.4W
40Mbps	1 Megapixel (1280 x 1024) HD or 720P (1280 x 720) D1 (704 x 480)	1000m (3280ft.)	9.5W	1200m (3937ft.)	8W
20Mbps	D1 (704 x 480)	1200m (3937ft.)	5.0W	1600m (5249ft.)	6W
Link (< 20Mbps)	Low power consumption PoE devices (VoIP Phone... etc.)	–	–	1800m (5905ft.)	4W

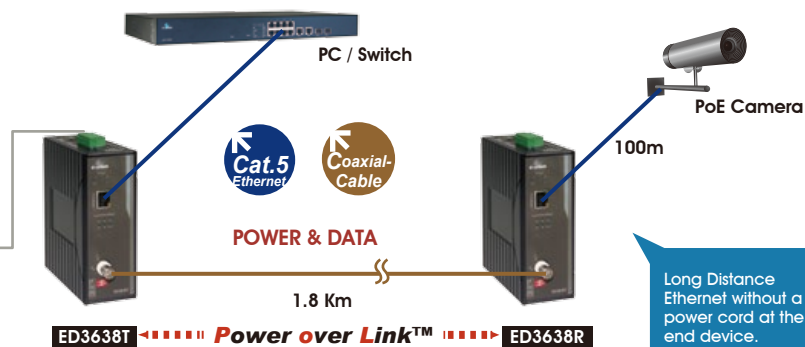
** Typical resolution is estimated at standard video quality, MJPEG format with 30 FPS. The resolution may vary with different brands of IP cameras.

How does it work?

Power Supply Suggestion	30W Application
SDR-120-48 / DR-120-48 (120W 48VDC)	For 1 pair
SDR-240-48 (240W 48VDC)	For 3 pairs
SDR-480-48 (480W 48VDC)	For 7 pairs



48VDC Power Supply





PoE Ethernet Extenders

ED3142

Hardened 10/100BASE-TX IEEE802.3at PoE Ethernet Extender

D P R

ED3146

Hardened 4-Port 10/100BASE-TX IEEE802.3at PoE Ethernet Extender

D P R



Coaxial/Copper Ethernet Extenders

ED3331

Industrial 10/100BASE-TX Ethernet Extender over Coaxial Cable

C D W

ED3341

Hardened 10/100BASE-TX Ethernet Extender over Coaxial Cable

D P R

ED3101

Industrial 10/100BASE-TX Ethernet Extender

C D W

ED3141

Hardened 10/100BASE-TX Ethernet Extender

D P R

ED3145

Hardened 4-port 10/100BASE-TX Ethernet Extender

D P R

C Chassis **D** DIN-Rail **P** Panel **R** Rack **W** Wall

Product Highlight

Model**	RJ45 Interface	Extender Interface			Max. Distance	Max. Bandwidth	PoE (IEEE802.3at)	Power Input	Operating Temp.
	100BASE	RJ11	TB*	BNC					
ED3142	1	1	1	–	1.9KM	50Mbps	✓	24 – 48VDC	–40°C to 75°C
ED3146	2/4	1	1	–	1.9KM	50Mbps	✓	24 – 48VDC	–40°C to 75°C
ED3331	1	–	–	1	2.6KM	85Mbps	–	12VDC to AC PSU	–10°C to 60°C
ED3341	1	–	–	1	2.6KM	85Mbps	–	12 – 48VDC	–40°C to 70°C
ED3101	1	1	–	–	1.9KM	50Mbps	–	12VDC to AC PSU	–20°C to 60°C
ED3141	1	1	1	–	1.9KM	50Mbps	–	12 – 32VDC	–40°C to 75°C
ED3145	4	1	1	–	1.9KM	50Mbps	–	24 – 48VDC	–40°C to 75°C

** 2 ED3100 series units or 2 ED3300 series units work in a pair, switch-selectable for use as either a remote or local unit.

* TB = Terminal Block



Media Converters



EL1032P

Industrial 10/100BASE-TX to 100BASE-FX Media Converter with 30W PoE/PSE

D P

EL2315

10/100/1000BASE-TX to 100/1000BASE-X Dual Rate SFP Media Converter

C W

EL100/200

10/100BASE-TX to 100BASE-FX Media Converter

C W

Product Highlight

Model	RJ45 Interface		Fiber Interface		PoE	Power Input	Operating Temp.
	10/100 BASE	10/100/1000 BASE	100 BASE	100/1000 Dual Rate			
EL1032P	1	–	1	–	30W PSE	48VDC	–10°C to 60°C
EL2315	–	1	–	1 (SFP)	–	12VDC to AC PSU	0°C to 50°C
EL100/200	1	–	1	–	–	12VDC to AC PSU	0°C to 45°C

EtherWAN Systems, Inc.

US Office

4570 E. Eisenhower Circle, Anaheim, CA 92807

TEL: +1-714-779-3800

FAX: +1-714-779-3806

Email: info@etherwan.com

Pacific Rim Office

8F, No. 2, Alley 6, Lane 235, Baoqiao Rd.,

Xindian District, New Taipei City 231,

Taiwan (R.O.C)

TEL: +886-2-6629-8986

FAX: +886-2-6629-7758

Email: info@etherwan.com.tw

www.etherwan.com

© 2013 EtherWAN Systems Inc. All rights reserved.

69G-EW13031BC