EtherWAN

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 — 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	RJ-45	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 45°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

EX46100
Hardened Web-smart 8-port 10/100BASE High Power PoE Ethernet Switch D P R

EX48000A/EX48000
Hardened Unmanaged / Web-smart 5-port 10/100BASE PoE Ethernet Switch K W

EX45900
Hardened Unmanaged 5-port 10/100/1000BASE (4 x PoE) + 1-port 1000BASE-X Gigabit Ethernet Switch D

EX49000A/EX49000
Hardened Unmanaged / Web-smart 16-port 10/100BASE PoE and 2-port combo SFP Gigabit Ethernet Switch R

EX74000
Hardened Managed 6-port 10/100BASE (4 x PoE) with 2-port combo SFP (DDM) Gigabit Combo Ethernet Switch P R

EX75000
Hardened Managed 24-port 10/100BASE-TX + 4-port Gigabit PoE Ethernet Switch R

EX76000
Hardened Managed 16-port 10/100BASE PoE with 2-port Gigabit Combo Ethernet Switch R

EX78000
Hardened Managed 10-port 10/100BASE (8 x PoE) and 2-port Gigabit Ethernet Switch D P

EX78602
Hardened Managed 6-port 10/100BASE (4 x PoE + 2 x 60W PoE) and 2-port Gigabit Ethernet Switch D P

EX78900
Hardened Managed 16-port (8 x 60W PoE) Gigabit Ethernet Switch D P

K Desktop D DIN-Rail P Panel R Rack 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	RJ-45	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
EX45900	–	–	–	5	1	1	4	120W	Unmanaged	24 /48 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
EX78602	6	–	–	2	2	2	6	180W	Managed	52-57 VDC	-40°C to 75°C
EX78900	–	–	–	12	4	4	8	240W	Managed	52-57VDC	-40°C to 75°C
EX76000	16	–	–	2	2	–	16	246W	Managed	47-55 VDC	-40°C to 75°C

Core compentency 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 coppor 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

EX35082
Unmanaged Industrial 8-port Gigabit Ethernet Switch — D P

EX32900 & EX42900
Industrial/Hardened Unmanaged 5/8-port 10/100/1000BASE Ethernet Switch — D

EX16900
Unmanaged 5-port 10/100/1000BASE Ethernet Switch — K

EX1616W
Web-Smart 16-port 10/100BASE-TX and 1-port 100BASE-FX Ethernet Switch — R

EX39924
Industrial Unmanaged 24-port Gigabit Switch with 4/16-port combo SFP Slots — R

EX70900
Managed Hardened 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

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 W Wall

Product Highlight

Model	Max. 100BASE ports			Max. 1000BASE ports			Max. 10GBASE ports	Management	Power Input	Operating Temp.
	RJ45	Fixed Fiber	SFP	RJ-45	Fixed Fiber	SFP	SFP+			
EX32900	–	–	–	5/8	1	–	–	Unmanaged	12 – 48VDC	-10°C to 60°C
EX42900	–	–	–	5/8	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
EX35082	–	–	–	8	2	2	–	Unmanaged	12 – 32VDC	-20°C to 60°C
EX16900	–	–	–	5	1	1	–	Unmanaged	5VDC	0°C to 45°C
EX71000	8	4	4	2	2	2	–	Managed	12 – 48VDC	-40°C to 75°C
EW1616W	16	–	–	–	–	–	–	Web-smart	50/60Hz, 100 – 240VAC	0°C to 45°C
EX70900	–	–	–	8	2	2	–	Managed	12 – 48VDC	-40°C to 75°C
EX73000	16	4	–	2	2	–	–	Managed	12 – 48VDC	-40°C to 85°C
EX39924	–	–	–	24	–	4/16	–	Unmanaged	50/60Hz, 100 – 240VAC	-10°C to 60°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™ means power and data are transported over a single pair of wires, between two locations. The wire may be a phone cable or a coxial 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.

PoL™ over Copper Wires

ED3538

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

D

PoL™ over Coaxial Cable

ED3638

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

D

ED3238

10/100BASE-TX IEEE802.3af PoE Ethernet Extender over Coaxial Cable

K [P R W optional]

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

Product Highlight

Model	RJ45 Interface	Extender Interface			Max. Distance	Max. Bandwidth	PoE	Power Input	Operating Temp.
	100BASE	RJ11	TB*	BNC					
ED3538	1	1	1	–	2.2Km	100Mbps	30W IEEE802.3at	46 – 57VDC	-40°C to 75°C
ED3638	1	–	1	1	2.4Km	100Mbps	30W IEEE802.3at	46 – 57VDC	-40°C to 75°C
ED3238	1	–	–	1	RG6@180m RG11@250m	100Mbps	15.4W IEEE802.3af	57VDC or PoE/PSE	-10°C to 50°C

TB: Terminal Block

ED3238 PoL™ Performance

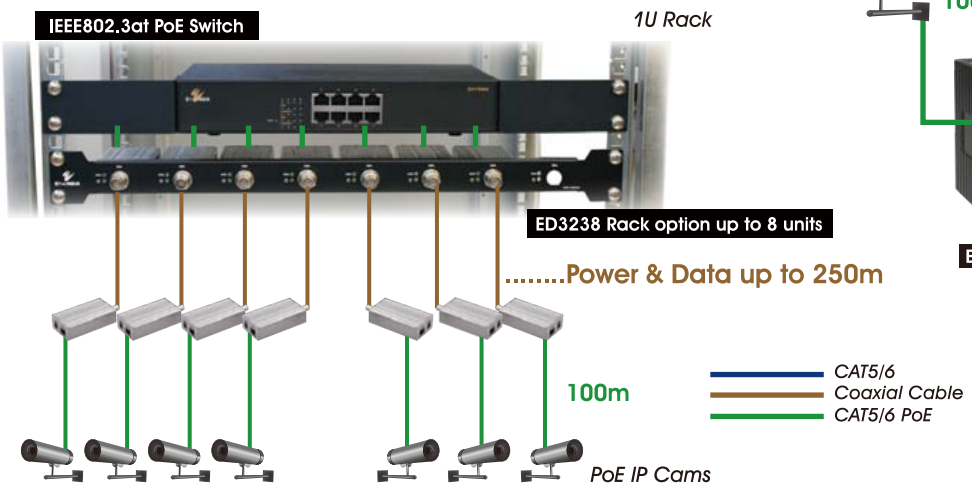
ED3238 (RG6 coaxial cable)	
Distance	PoE Power Output
180m (590ft)	15.4W

ED3238 (RG11 coaxial cable)	
Distance	PoE Power Output
250m (820ft)	15.4W

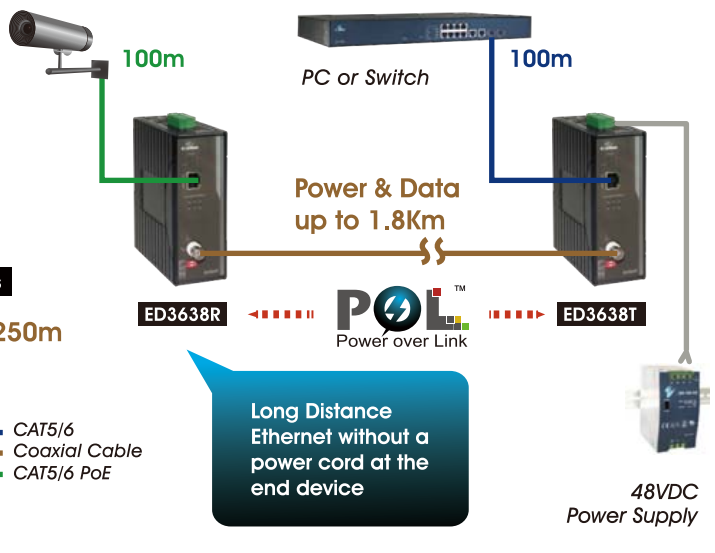
ED3538/ED3638 PoL™ Performance

Data Rate ***Indicators*** (Min. Rate)	ED3538 (pair of 24AWG copper wire)		ED3638 (RG6 coaxial cable)	
	Distance	PoE Power Output	Distance	PoE Power Output
100Mbps	300m (984ft.)	30.0W	400m (1312ft.)	30.0W
80Mbps	400m (1312ft.)	15.4W	600m (1968ft.)	15.4W
60Mbps	600m (1968ft.)	14.0W	800m (2624ft.)	15.4W
40Mbps	1000m (3280ft.)	9.5W	1200m (3937ft.)	8W
20Mbps	1200m (3937ft.)	5.0W	1600m (5249ft.)	6W

ED3238 PoL™ Application



ED3638 PoL™ Application



PoE Ethernet Extenders

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: 100BASE	Extender Interface: RJ11	Extender Interface: TB *	Extender Interface: BNC	Max. Distance	Max. Bandwidth	PoE (IEEE802.3at)	Power Input	Operating Temp.
ED3146	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

EL1032T
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

EL2211
10/100/1000BASE-TX to 1000BASE-SX/LX/BX Media Converter — C W

Product Highlight

Model	RJ45 Interface: 10/100 BASE	RJ45 Interface: 10/100/1000 BASE	Fiber Interface: 100 BASE	Fiber Interface: 100/1000 Dual Rate	PoE	Power Input	Operating Temp.
EL1032T	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
EL2211	–	1	–	1(1000BASE)	–	12VDC to AC PSU	0°C to 50°C

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