E-SERIES
Ethernet & PoE Extenders

SIGNAMAX

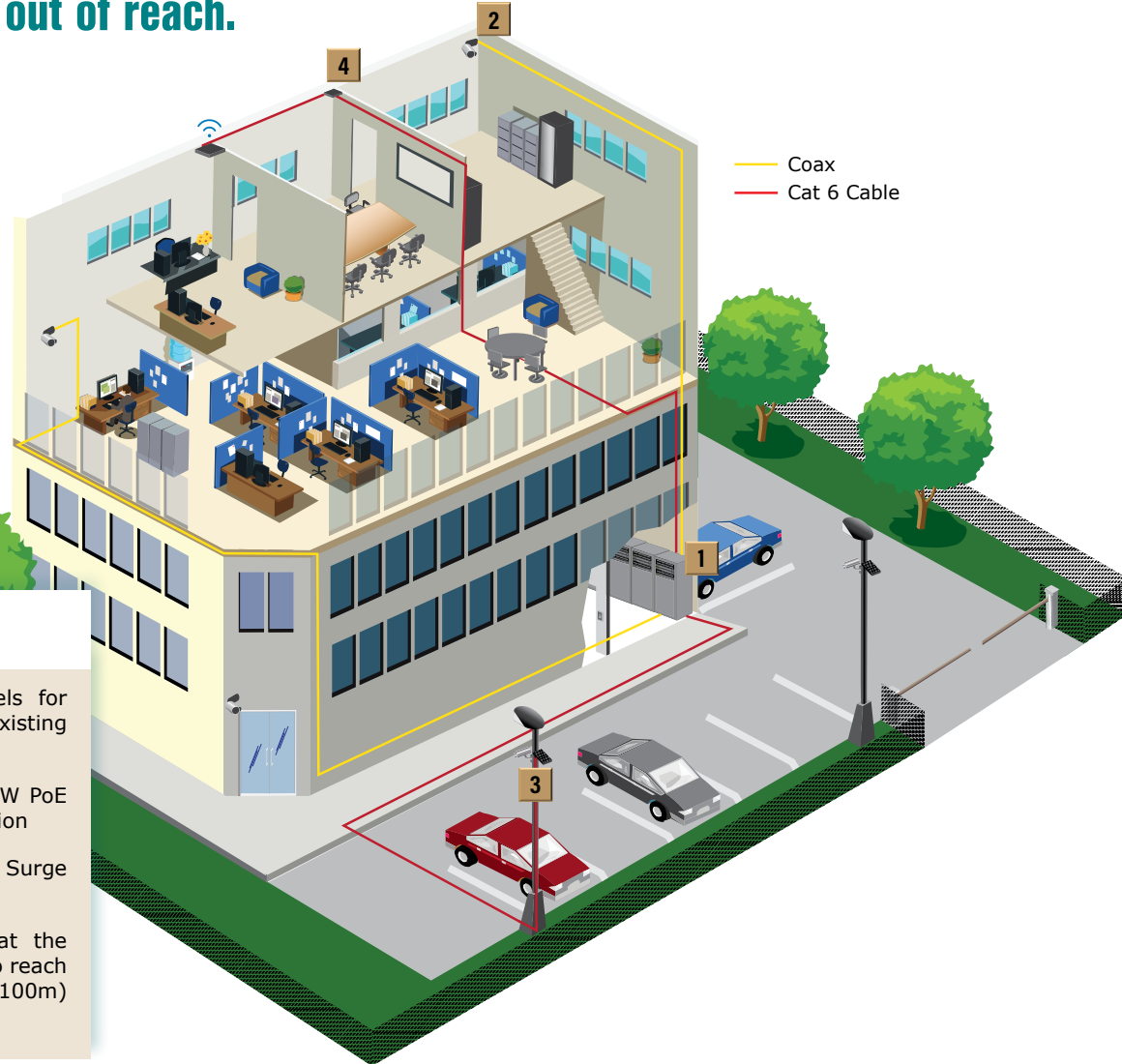**NETWORK SOLUTIONS**

E-SERIES Ethernet & PoE Extenders

The Signamax E-300 Series extenders provide businesses a comprehensive solution to connect IP cameras, Wireless Access Points, Computers or entire buildings using a variety of legacy and new cables over long distances.

Analog to IP camera conversions can reuse existing coax with the use of any of the Coax models. New deployments can utilize the long range capabilities of the E-300 Series to run Ethernet and PoE up to 4,000 ft (1,200 m) over Cat 6 cable. A building to building Ethernet connectivity, up to 8,000 ft (2,400 m), can be achieved using the optional AP30030 power supply. Both Coax and Twist Pair models offer interoperable commercial and industrial combinations with IP66/IK10 casing.

- Reuse existing coax or telephone cable

- PoE up to 4,000ft (1200m) over Cat6 or RG6 cables

- Zero touch Plug and Play connectivity

- Interoperable indoor and outdoor models

- 6kV Surge Protection on IP66 industrial models

- No AC power required at remote location

- Provide up to 57W to the powered device

- AC or PoE powered local models

- 5 year hardware warranty & support at no additional cost

Staying connected even when it's out of reach.

— Coax
— Cat 6 Cable

E-300 SERIES Capabilities

1. **Local** - includes AC or PoE powered local models for maximum deployment flexibility and utilization of existing infrastructure.

2. **Remote** - powered inline and can provide up to 57W PoE power to the powered device without an AC connection

3. **Remote** - Outdoor IP66/IK10 models with 6KV Surge protection allow deployment in extreme conditions

4. **Extender** - When an existing cable is already at the maximum 328ft (100m) and more cable is needed to reach the device, each extender offers an additional 328ft (100m) of data and power.

E-300 COAX MODELS

PART NUMBER		EC30010	EC30020	EC30110	EI30110
Commercial Extenders					
Ports		RJ45, BNC	RJ45, BNC	BNC, RJ45	BNC, RJ45
Role		Local	Local	Remote	Remote
Powered		Provided AC Adapter	PoE	From Local	From Local
Casing Standard		IP30	IP30	IP30	IP66/IK10
Environmental	Operating Temperature	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-40 to 167°F (-40 to 75°C)
	Operating Humidity	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)
Physical Characteristics	Dimensions	3.36 x 1.85 x 0.91 in (8.54 x 4.71 x 2.3 cm)	3.36 x 1.85 x 0.91 in (8.54 x 4.71 x 2.3 cm)	3.36 x 1.85 x 0.91 in (8.54 x 4.71 x 2.3 cm)	6.18 x 2.2 x 1.56 in (15.7 x 5.58 x 3.98 cm)
	Weight	0.44 lb (0.2 kg)	0.57 lb (0.26 kg)	0.44 lb (0.2 kg)	0.66 lb (0.3 kg)
Pair With	Commercial	EC30110	EC30110	EC30010 / EC30020	
	Industrial	EI30110	EI30110	N/A	

- Reuse existing coax cable
- No AC power required at remote location

Power & Distance: Coax & Twisted Pair

CABLE	100m (328ft)	300m (984ft)	500m (1,640ft)	800m (2,625ft)	1,200m (3,937ft)
RG6	57.17W	34.72W	25.2W	13.11W	9.66W
RG59 (20AWG)	56.1W	29.3W	17.6W	11W	7.3W
Cat6 (AC or PoE++ Powered)	57.17W	34.72W	25.2W	13.11W	9.66W
Cat6 (PoE+ Powered)	22.89W	20.68W	18.52W	10.88W	6.05W
Cat 5e	56.6W	33.2W	21.1W	12W	8.3W
2 Pair Telephone Wire	36W	8.6W	X	X	X
1 Pair Telephone Wire	18W	4.3W	X	X	X

All values assume 1m Cat 5e cable from remote device to PD.

Power & Distance: Extenders

NUMBER OF EXTENDERS	DISTANCE	EC30100		EI30100	
		PD VOLTAGE	PD POWER	PD VOLTAGE	PD POWER
1	200m	42.4V	24.59W	43.17V	25.9W
2	300m	38V	17.9W	38.52V	21.57W
3	400m	33.7V	16.18W	35.01V	17.86W
4	500m	31.4V	12.56W	35.22V	13.38W
5	600m	30.8V	8.62W	35.04V	9.81W

All values using Cat6 cables.
Actual values will differ due to network environment and cable quality.

E-300 TWISTED PAIR MODELS

- Interoperable indoor and outdoor remote models with AC or PoE powered local models
- Up to 8,000 ft (2,400 m) span with the AP30030 power supply

E-300 EXTENDER MODELS

- Supports 10/100/1000 data rates and PoE/PoE+ devices
- Daisy chain up to 5 extenders

PART NUMBER		EC30030	EC30040	EC30130	EI30130
Commercial Extenders					
Ports		RJ45, RJ45	RJ45, RJ45	RJ45, RJ45	RJ45, RJ45
Role		Local	Local	Remote	Remote
Powered		Provided AC Adapter	PoE	From Local	From Local
Casing Standard		IP30	IP30	IP30	IP66/IK10
Environmental	Operating Temperature	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-40 to 167°F (-40 to 75°C)
	Operating Humidity	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)
Physical Characteristics	Dimensions	4.29 x 2.03 x 0.91 in (10.9 x 5.15 x 2.3 cm)	4.29 x 2.03 x 0.91 in (10.9 x 5.15 x 2.3 cm)	4.29 x 2.03 x 0.91 in (10.9 x 5.15 x 2.3 cm)	6.18 x 2.2 x 1.56 in (15.7 x 5.58 x 3.98 cm)
	Weight	0.48 lb (0.22 kg)	0.61 lb (0.28 kg)	0.48 lb (0.22 kg)	0.66 lb (0.3 kg)
Pair With	Commercial	EC30130	EC30130	EC30030 / EC30040	
	Industrial	EI30130	EI30130	N/A	

PART NUMBER		EC30100	EI30100
Commercial Extenders			
Ports		RJ45, RJ45	RJ45, RJ45
Powered		PoE	PoE
Casing Standard		IP30	IP31
Environmental	Operating Temperature	23 to 122°F (-5 to 50°C)	-40 to 167°F (-40 to 75°C)
	Operating Humidity	5 ~ 95% (non-condensing)	5 ~ 95% (non-condensing)
Physical Characteristics	Dimensions	0.79 x 1.26 x 4.84 in (2 x 3.2 x 12.3 cm)	1.06 x1.77 x4.57 in (2.7 x 4.5 x 11.6 cm)
	Weight	0.23 lb (0.11 kg)	0.27 lb (0.12 kg)

E-SERIES Ethernet & PoE Extenders

Ordering Information

COAX

PART NO.	DESCRIPTION
COMMERCIAL	
EC30010	Ethernet and PoE over Coax, Local AC Powered
EC30020	Ethernet and PoE over Coax, Local PoE Powered
EC30110	Ethernet and PoE over Coax, Remote
INDUSTRIAL	
EI30110	Industrial Ethernet and PoE over Coax, Remote

EXTENDERS

PART NO.	DESCRIPTION
COMMERCIAL	
EC30100	Ethernet and PoE Extender
INDUSTRIAL	
EI30100	Industrial Ethernet and PoE Extender

TWISTED PAIR

PART NO.	DESCRIPTION
COMMERCIAL	
EC30030	Long Range Ethernet and PoE, Local AC Powered
EC30040	Long Range Ethernet and PoE, Local PoE Powered
EC30130	Long Range Ethernet and PoE, Remote
INDUSTRIAL	
EI30130	Industrial Long Range Ethernet and PoE, Remote

ACCESSORIES

PART NO.	DESCRIPTION
AP30030	Power Supply for E-300 Remote

Power Supply required only if link distance is above 4,000ft (1,200m).

Specifications

PERFORMANCE
Supports 10K Jumbo Frames
Wirespeed Forwarding

MOUNTING
Wall-mount

STANDARDS
IEEE 802.3 10BaseT; IEEE 802.3u 100BaseTX; IEEE 802.3 Auto-Negotiation; IEEE 802.3ab 1000BaseT (EC30100, EI30100 only); IEEE 802.3x Flow Control
PoE: Support IEEE 802.3af/IEEE 802.3at
IEEE 802.3bt (Except for: EC30100, EI30100)

ELECTRICAL CHARACTERISTICS
Power Supply:
 Output: 56 V DC
 Input: 100 to 240 V AC 50/60 Hz
Power Consumption: 2W Max
Surge Protection: 6kV (EI30110, EI30130 only)

CERTIFICATIONS
EMC: CE mark, FCC Part 15 Class A; VCCI Class A
Safety: CE/LVD EN60950-1

WARRANTY
Five Years (Including power supply)

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