

# POE LAN TRANSFORMERS

100 BASE-T | 1G BASE-T | 10G BASE-T ETHERNET

Increase power supply efficiency with our new Power over Ethernet LAN transformers that meet IEEE standards 802.3u, 802.3ab and 802.3an. Abracon's new POE transformers feature extended operating temperatures up to -40°C to +125°C, power levels from 15W to 100W and speeds up to 10 Gbps that support connectivity of 100/1G/10G Base-T. Increase power efficiency while reducing electromagnetic noise suppression with Abracon's new product offering. Available in multiple schematic and package options.

## APPLICATIONS

- Fast and gigabit Ethernet
- Hubs, servers, switches, router, access points
- IP security cameras and surveillance
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Industrial lighting
- Industrial automation

### 100 BASE-T (IEEE 802.3u)

PORT COUNT	SERIES	TRANSFORMER TYPE	SCHEMATIC OPTIONS	PACKAGE OPTIONS	INDUCTANCE (μH)	OPERATING TEMPERATURE	ISOLATION (V)	L x W x H (mm)	PIN PITCH (mm)	FEATURES
Single	ALAN1100X1	Traditional SMD	T,C	16-Pin SMD	350	0°C to 70°C -40°C to +85°C -40°C to +105°C -40°C to +125°C -55°C to +125°C	1500	12.8 x 6.9 x 5.6	1.27	Type 1 POE

### 1G BASE-T (IEEE 802.3ab)

PORT COUNT	SERIES	TRANSFORMER TYPE	SCHEMATIC OPTIONS	PACKAGE OPTIONS	INDUCTANCE (μH)	OPERATING TEMPERATURE	ISOLATION (V)	L x W x H (mm)	PIN PITCH (mm)	FEATURES
Single	ALAN110001	Traditional SMD	T,C T,C,S	24-Pin SMD	350	0°C to 70°C -40°C to +85°C -40°C to +105°C -40°C to +125°C	1500	18.3 x 16.5 x 6.4 19.5 x 13.9 x 5.7	1.27 0.99	Type 1 POE
	ALAN210001	Traditional SMD	T,C T,C,S	24-Pin SMD	350	0°C to 70°C -40°C to +85°C -40°C to +105°C -40°C to +125°C	1500	18.3 x 12.4 x 6.4	1.27	Type 2 POE +
	ALAN310001	Traditional SMD	T,C	24-Pin SMD	350	0°C to 70°C -40°C to +85°C -40°C to +105°C -40°C to +125°C	1500	18.3 x 12.4 x 6.4	1.27	Type 3 POE ++

### 10G BASE-T (IEEE 802.3an)

PORT COUNT	SERIES	TRANSFORMER TYPE	SCHEMATIC OPTIONS	PACKAGE OPTIONS	INDUCTANCE (μH)	OPERATING TEMPERATURE	ISOLATION (V)	L x W x H (mm)	PIN PITCH (mm)	FEATURES
Single	ALAN-2401	Traditional SMD	T,C	24-Pin SMD	120	0°C to 70°C	1500	17.5 x 15.6 x 5.4	1.27	Type 1 POE
Single	ALAN-2402	Traditional SMD	T,C	24-Pin SMD	62	0°C to 70°C	1500	13.6 x 15.0 x 6.2	1.0	Type 3 POE++

T: Transformer C: Common Mode Choke S: Shunt Inductor