

COMPUTER NETWORK PROTECTOR



Protects sensitive computer networks like router, hubs, switches, PC workstations using 10/100/1000 BaseT, CCDI, ATM155 against lightning induced surges, AC power interference and ground loop energies

- ◆ **Single-port or multi-port protection**
- ◆ **Versatile Ethernet system protection** CAT5, CAT5e, CAT6, Power-over-Ethernet)
- ◆ **All mode protection**
- ◆ **State-of-the-art avalanche diode technology**
- ◆ **Low shunt capacitance and in-line resistance to reduce signal loss**
- ◆ **Simple plug-in installation**



Single-port or multi-port protection - LPP series of computer network protectors offers a flexible surge protection solution that can grow with your requirements. It is available for single port computer terminal protection and multiport protection with a maximum of 24 port, 19" rack-mounting applications such as hubs, routers, switches, ATMs using RJ45 connectors.

Versatile Ethernet system protection(CAT5, CAT5e, CAT6, Power-over-Ethernet) - LPP series are designed to protect all widely used computer network system using Ethernet twisted pairs technology like 10/100/1000 BaseT, CDDI, ATM155 and also the Power-over-Ethernet.

All mode protection - Transient overvoltage due to lightning induced surges, AC power interference and ground loop energies appearing between any signal pair and/or its ground can damage the sensitive network equipment, LPP series protector are uniquely designed to protect both common and differential

mode in all the 8 pins of the RJ45 port and its ground lead.

State-of-the-art avalanche diode technology - The sophisticated hybrid circuitry using Silicon Avalanche diode ensures very fast response time and exceptional low let-through voltage which results in maximum system reliability and up-time.

Low shunt capacitance and in-line resistance to reduce signal loss - With only 5pF shunt capacitance and negligible in-line resistance, even the most demanding high speed gigabit multimedia signal can be passed without much signal degradation.

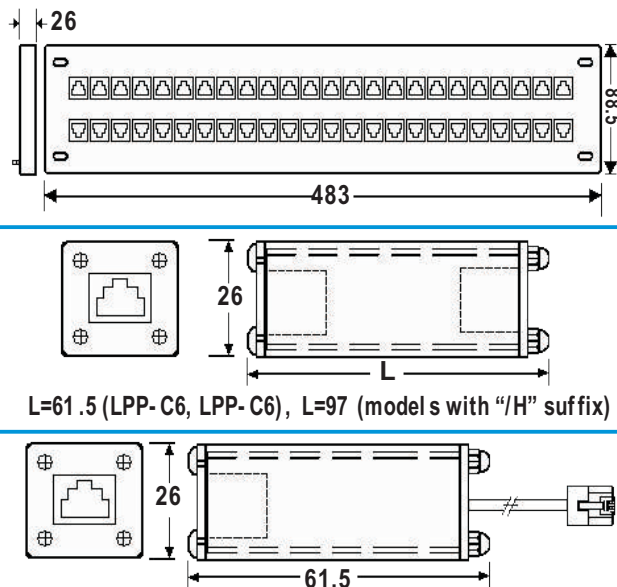
Simple plug-in installation - The compact, in-line and simple plug-in design enables it to be easily located near to the protected equipment. When multiport protection is required, the 19" rack-mounting models can be used which can hold up to 24 ports and only occupying 2U space.

Installation



For detail installation requirements, pls refer to relevant user manual.

Dimensions



General Specifications

SPD class(EN/IEC):	TYPE 3/Class III TYPE 2/Class II ("H" models)
Max. working voltage, U_c:	5V (signal pairs) 29V (power pairs of P24 models) 58V (power pairs of P48 models)
Max. operating current, I_L:	300mA
Protection modes:	common and transverse
Lines protected:	All pairs(1/2, 3/6, 4/5, 7/8)
Response time, t_A:	<5ns
Max. discharge current, I_{max}:	100A 20KA(add /H at suffix of the model)
Max. data rate:	100Mb/s (C5 models) 1000Mb/s (C6 models)
Voltage protection level, U_p: (At 5KV 10/700 μ s)	23V(all pins for Non-PoE models) 23V(PoE models, signal pairs) 43V(/P24, power pairs) 79V(/P48, power pairs)
Shunt capacitance:	5pF (single port models) 25pF (rack-mount models)
In line resistance:	~0 Ω
Standards compliance:	BS EN/IEC61643-21 100BaseT 1000BaseT AS1768-2007 IEEE C62-41 CP33
Connector type:	RJ45
Earth connection:	Flying lead (single port models) Earth stud (rack-mount models)
Option:	Mounting DIN-Clip (add "N")—single port
Case material:	Anodized aluminum (single port) Galvanized steel alloy (multi-port)
Operating temperature, T_u:	-40-85°C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m
Weight:	LPP----All models 86g LPP8----All models 1050g LPP16----All models 1150g LPP24----All models 1260g

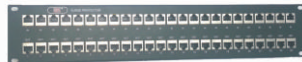

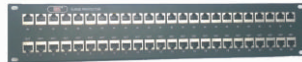
ORDERING INFORMATION



MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
LPP-C5	Single port, 10/100BaseT protector, RJ45 jack to RJ45 plug	
LPP-C5/P24	Single port, 10/100BaseT, 24V Power-over-Ethernet protector, RJ45 jack to RJ45 plug	
LPP-C5/P48	Single port, 10/100BaseT, 48V Power-over-Ethernet protector, RJ45 jack to RJ45 plug	
LPP-C6	Single port, 1000BaseT protector, RJ45 jack to RJ45 jack	
LPP-C6/P24	Single port, 1000BaseT, 24V Power-over-Ethernet protector, RJ45 jack to RJ45 jack	
LPP-C6/P48	Single port, 1000BaseT, 48V Power-over-Ethernet protector, RJ45 jack to RJ45 jack	
LPP-C5/H	Single port, 10/100BaseT protector, 20KA surge handling, RJ45 jack to RJ45 jack	
LPP-C5/P24/H	Single port, 10/100BaseT, 24V Power-over-Ethernet protector, 20KA surge handling, RJ45 jack to RJ45 jack	
LPP-C5/P48/H	Single port, 10/100BaseT, 48V Power-over-Ethernet protector, 20KA surge handling, RJ45 jack to RJ45 jack	
LPP-C6/H	Single port, 1000BaseT protector, 20KA surge handling, RJ45 jack to RJ45 jack	
LPP-C6/P24/H	Single port, 1000BaseT, 24V Power-over-Ethernet protector, 20KA surge handling, RJ45 jack to RJ45 jack	
LPP-C6/P48/H	Single port, 1000BaseT, 48V Power-over-Ethernet protector, 20KA surge handling, RJ45 jack to RJ45 jack	
LPP8-C5	8 port, 19" rack-mount, 10/100BaseT protector	
LPP8-C5/P24	8 port, 19" rack-mount, 10/100BaseT, 24V Power-over-Ethernet protector	
LPP8-C5/P48	8 port, 19" rack-mount, 10/100BaseT, 48V Power-over-Ethernet protector	
LPP8-C6	8 port, 19" rack-mount, 1000BaseT protector	
LPP8-C6/P24	8 port, 19" rack-mount, 1000BaseT, 24V Power-over-Ethernet protector	
LPP8-C6/P48	8 port, 19" rack-mount, 1000BaseT, 48V Power-over-Ethernet protector	
LPP8-C5/H	8 port, 19" rack-mount, 10/100BaseT protector, 20KA surge handling	
LPP8-C5/P24/H	8 port, 19" rack-mount, 10/100BaseT, 24V Power-over-Ethernet protector, 20KA surge handling	
LPP8-C5/P48/H	8 port, 19" rack-mount, 10/100BaseT, 48V Power-over-Ethernet protector, 20KA surge handling	
LPP8-C6/H	8 port, 19" rack-mount, 1000BaseT protector, 20KA surge handling	
LPP8-C6/P24/H	8 port, 19" rack-mount, 1000BaseT, 24V Power-over-Ethernet protector, 20KA surge handling	
LPP8-C6/P48/H	8 port, 19" rack-mount, 1000BaseT, 48V Power-over-Ethernet protector, 20KA surge handling	
LPP16-C5	16 port, 19" rack-mount, 10/100BaseT protector	
LPP16-C5/P24	16 port, 19" rack-mount, 10/100BaseT, 24V Power-over-Ethernet protector	
LPP16-C5/P48	16 port, 19" rack-mount, 10/100BaseT, 48V Power-over-Ethernet protector	
LPP16-C6	16 port, 19" rack-mount, 1000BaseT protector	
LPP16-C6/P24	16 port, 19" rack-mount, 1000BaseT, 24V Power-over-Ethernet protector	
LPP16-C6/P48	16 port, 19" rack-mount, 1000BaseT, 48V Power-over-Ethernet protector	
LPP16-C5/H	16 port, 19" rack-mount, 10/100BaseT protector, 20KA surge handling	
LPP16-C5/P24/H	16 port, 19" rack-mount, 10/100BaseT, 24V Power-over-Ethernet protector, 20KA surge handling	
LPP16-C5/P48/H	16 port, 19" rack-mount, 10/100BaseT, 48V Power-over-Ethernet protector, 20KA surge handling	
LPP16-C6/H	16 port, 19" rack-mount, 1000BaseT protector, 20KA surge handling	
LPP16-C6/P24/H	16 port, 19" rack-mount, 1000BaseT, 24V Power-over-Ethernet protector, 20KA surge handling	
LPP16-C6/P48/H	16 port, 19" rack-mount, 1000BaseT, 48V Power-over-Ethernet protector, 20KA surge handling	
LPP24-C5	24 port, 19" rack-mount, 10/100BaseT protector	
LPP24-C5/P24	24 port, 19" rack-mount, 10/100BaseT, 24V Power-over-Ethernet protector	
LPP24-C5/P48	24 port, 19" rack-mount, 10/100BaseT, 48V Power-over-Ethernet protector	



ORDERING INFORMATION

MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
LPP24-C6	24 port, 19" rack-mount, 1000BaseT protector	
LPP24-C6/P24	24 port, 19" rack-mount, 1000BaseT, 24V Power-over-Ethernet protector	
LPP24-C6/P48	24 port, 19" rack-mount, 1000BaseT, 48V Power-over-Ethernet protector	
LPP24-C5/H	24 port, 19" rack-mount, 10/100BaseT protector, 20KA surge handling	
LPP24-C5/P24/H	24 port, 19" rack-mount, 10/100BaseT, 24V Power-over-Ethernet protector, 20KA surge handling	
LPP24-C5/P48/H	24 port, 19" rack-mount, 10/100BaseT, 48V Power-over-Ethernet protector, 20KA surge handling	
LPP24-C6/H	24 port, 19" rack-mount, 1000BaseT protector, 20KA surge handling	
LPP24-C6/P24/H	24 port, 19" rack-mount, 1000BaseT, 24V Power-over-Ethernet protector, 20KA surge handling	
LPP24-C6/P48/H	24 port, 19" rack-mount, 1000BaseT, 48V Power-over-Ethernet protector, 20KA surge handling	
* Single port with DIN-clip, add "/N" at the suffix		
* Any number of ports for the 19" rack-mount model are available on request		
* The C5 single port model is female(RJ45 socket) to male (RJ45-plug), for male to male and female to female, add /M or /F at the suffix of the model		

