

RSP-1M4-W

Surge protector for LAN Ethernet networks



- Universal 4-port network surge protector for industrial Ethernet networks in structured cabling systems.
- Mounting on flat surfaces and facility cabinets,
- Discharge element: Gas discharge tubes GDT with TVS diodes (Transient Voltage Suppression Diode)
- Certifications, directives: RoHS,

CAT6 Ethernet surge protector is designed for protecting Gigabit Ethernet terminals or RJ45/Ethernet cable system against surges, The unit is fulfilling the requirements of Category 6, can be universally used for all data services with nominal voltages of 5V. It is ideally suited for Gigabit Ethernet such as Industrial Networks and Local Area Networks (LANs), also for Telecom, ATM, ISDN, Voice over IP and similar applications in structured cabling systems according to Class E up to 250 MHz. All lines are protected by powerful 3-pole gas tubes and fast clamping diodes.

- Suitable for CAT5/CAT5E/CAT6/CAT6A cabling system up to 250 MHz.
- High discharge capability, total nominal discharge current 10kA 8/20 μ s and Lightning current up to 1.0kA.
- EMI Shielded housing, earthing via screw.
- Compatible with EN 50173, ISO/IEC 11801.
- Complied with IEC/EN 61643-21 (D1,C1,C2,C3)

Technical parameters

Discharge current (8/20 μ s)	I_n	2,5 kA
Total discharge current (8/20 μ s)	I_n	10 kA
Impulse discharge current (10/350 μ s)	I_{imp}	1 kA
Safety channel construction		two stage protection circuit GDT/TVS
Nominal voltage	U_n	5
Max. Continous operating voltage	U_c	6
Transmission rate	bps	10/100/1000
Limit voltage	U_p	@C2 (8/20 μ s) 55V(L-L); 550V(L-G) @C3 (1KV/ μ s) 25V(L-L); 500V(L-G)
Category of connection		CAT5/CAT5E/CAT6/CAT6A cabling system up to 250MHz
Response time		$\leq 1ns$
Insertion lose		≤ 3 dB
Number of slots RJ45		4
Certification according to standards		IEC/EN 61643-21
Standards compliance		EN 50173, ISO/IEC 11801
Dimensions L × W × H / Weight		119 × 101 × 27 mm / 445 g

Basic circuit diagram for one channel RJ45

