

SPD for Multi-Port Category 5 LAN Networks
RayDat NET 5 19 Series
C1 • C2 • C3



- IEC/EN Category: C1/C2/C3 (see Technical Data)
- Protection: All 4 Pairs
- Voltages: 5, 48V DC
- Maximum Operating Voltage: 6, 58V DC
- Frequency Range: 100MHz, Cat 5, PoE Compatible
- Surge Discharge Ratings: I_n : up to 300A per Line
- Enclosure: 19" Rack, Shielded, In-line Patch
- Termination: RJ45, Cat 5 Connectors
- Housing: Modular Design
- Options: 8, 16, 24 Port
Replaceable 8 Port Module
- Compliance: IEC/EN 61643-21

The RayDat NET 5 19 Series is intended to protect Local Area Networks (LAN) from overvoltage surges and electrostatic discharges created by switching transients in buildings. LAN systems are particularly prone to such disturbances because long cable lengths often behave like antennas to such atmospheric disturbances.

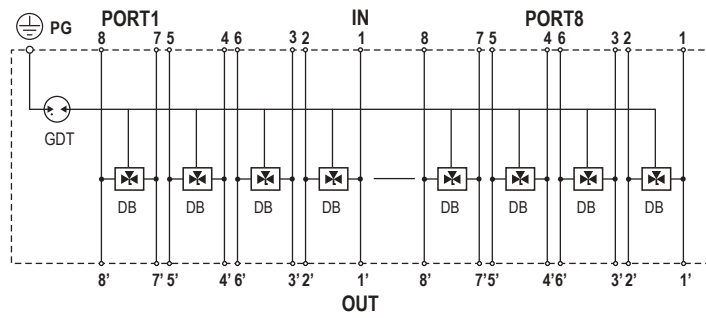
It is designed to fit a 19" rack mount and can provide 8, 16 or 24 ports patching to UTP lines. PoE version RayDat NET 5 19 PoE is designed to fulfill all versions of PoE applications compatible with standards IEEE 802.3af and IEEE 802.3at.

Technical Data

NET 5 19	NET 5 19	NET 5 19 PoE
Electrical		
Type per IEC/EN 61643-21	C1/C2/C3	C1/C3
Number of Protected Ports	8, 16, 24 Ports	
Nominal Operating Voltage (DC)	U_n	5V
Maximum Continuous Operating Voltage (DC)	U_c	6V
C1 Nominal Discharge Current (8/20 μ s) (Line-Line)	I_n	300A
C2 Total Discharge Current (8/20 μ s) (Lines-Ground)	I_{max}	1kA
Voltage Protection Level at I_n (Line-Line)	U_p	35V
(Lines-Ground)		350V
Response Time Overvoltage Protection	t_A	< 1 ns
Cut-off Frequency	f_G	100MHz
Mechanical		
Temperature Range	-40 °C to +80 °C	
Connection Type	Input/Output: RJ45 Sockets	
Degree of Protection IEC/EN 60529	IP 20	
Housing Material	Al	
Mounting	19" Rack	
Order Information		
Order Code	NET 5 19	NET 5 19 PoE
NET 5 8-19	706 140	706 144
NET 5 16-19	706 141	706 145
NET 5 24-19	706 142	706 146
NET 5 8-19 M (module)	706 143	706 147

RayDat NET 5 19 Series

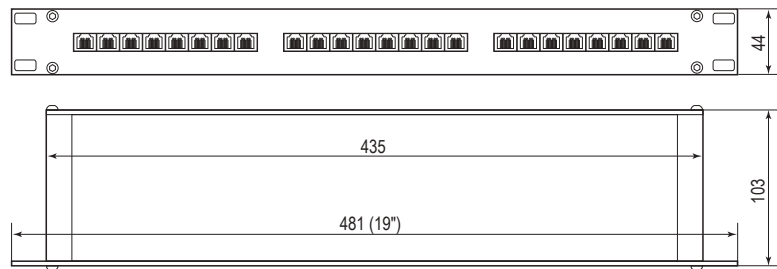
Internal Configuration



Legend

- DB Diode Block
- GDT Gas Discharge Tube
- PG Protective Grounding

Dimensions & Packaging



NET 5 19 Series	8 Port	16 Port	24 Port
Dimensions			
Weight per Unit	1.060 g	1.160 g	1.240 g
Packaging Dimensions (Single Unit)	483 × 108 × 45 mm		
Minimum Package Quantity	1 pieces		

Replacement Surge Module for 8 Ports

NET 5 19 M Series	8 Port	16 Port	24 Port
Dimensions			
Weight per Unit	146 g		
Packaging Dimensions (Single Unit)	258 × 113 × 49 mm		
Minimum Package Quantity	1 pieces		

NET 5 19 PoE Series	8 Port	16 Port	24 Port
Dimensions			
Weight per Unit	1.060 g	1.160 g	1.240 g
Packaging Dimensions (Single Unit)	483 × 108 × 45 mm		
Minimum Package Quantity	1 pieces		

Replacement Surge Module for 8 Ports

NET 5 19 M PoE Series	8 Port	16 Port	24 Port
Dimensions			
Weight per Unit	146 g		
Packaging Dimensions (Single Unit)	258 × 113 × 49 mm		
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