

## DATA SHEET

# 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.

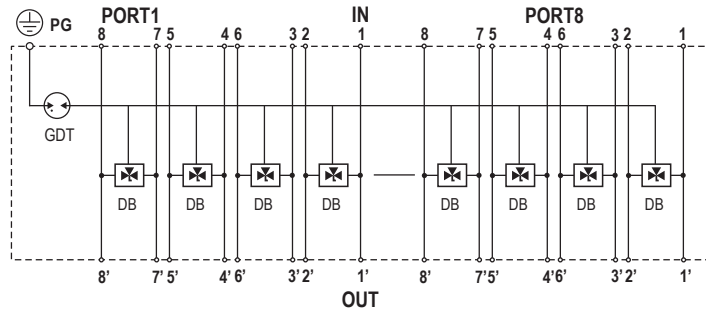
PoE version RayDat NET 5 19 PoE is designed to fulfill all versions of PoE applications compatible with standards IEEE 802.3af and IEEE 802.3at.

### Technical Data

NET 5 19	NET 5 19	NET 5 19 PoE
<b>Electrical</b>		
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 $\mu$ s) (Line-Line)	$I_n$	300A
C2 Total Discharge Current (8/20 $\mu$ 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
<b>Mechanical</b>		
Temperature Range	-40 °F to +176 °F [-40 °C to +80 °C]	
Connection Type	Input/Output: RJ45 Sockets	
Degree of Protection IEC/EN 60529	IP20 (built-in)	
Housing Material	Al	
Mounting	19" Rack	
<b>Order Information</b>		
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

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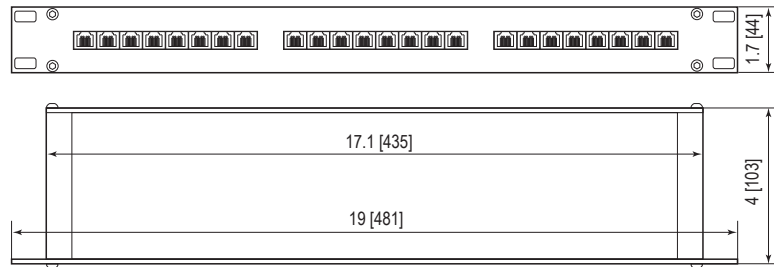
## Internal Configuration



### Legend

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

## Dimensions & Packaging



NET 5 19 Series	8 Port	16 Port	24 Port
<b>Dimensions</b>			
Weight per Unit	37.4 oz [1.06 kg]	40.9 oz [1.16 kg]	43.7 oz [1.24 kg]
Packaging Dimensions (Single Unit)	19 x 4.3 x 1.8" [483 x 108 x 45 mm]		
Minimum Package Quantity	1 pieces		

### Replacement Surge Module for 8 Ports

NET 5 19 M Series	8 Port	16 Port	24 Port
<b>Dimensions</b>			
Weight per Unit	5.14 oz [146 g]		
Packaging Dimensions (Single Unit)	10.2 x 4.5 x 1.9" [258 x 113 x 49 mm]		
Minimum Package Quantity	1 pieces		

NET 5 19 PoE Series	8 Port	16 Port	24 Port
<b>Dimensions</b>			
Weight per Unit	37.4 oz [1.06 kg]	40.9 oz [1.16 kg]	43.7 oz [1.24 kg]
Packaging Dimensions (Single Unit)	19 x 4.3 x 1.8" [483 x 108 x 45 mm]		
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### Replacement Surge Module for 8 Ports

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inches  
[mm]

Information contained in this document is subject to change at any time without notice.

