



Patch Panel Surge Protector for Data/Telecom

RAK Series



RAK16-E-C6-SO



RAK16-E-C6



The RAK series are patch panel DC signal line surge protectors that are designed to protect your sensitive telephone, datacom, and instrumentation equipment against harmful lightning surges and electrical transients. They are available in multiple configurations and protocols including 1000Base-T Ethernet, Mode A and Mode B Power-Over-Ethernet, CCTV, RS232, RS422, RS485, ISDN, T1, Leased Lines, Telco and other customized interfaces. The RAK Series utilize fast clamping silicon avalanche diodes with response times of <1 ns.

These units automatically reset after each surge event and are connected either with a RJ to RJ or ATT110 to RJ interface. The RAK are available in U1 or U2 sizes and mounted via flush mount or stand-off. Replacement modules are available.

Electrical Specifications

	100BASE T RS422, RS485, RS423, Ethernet	RS232	ISDN, T1, DDS (fused)	Dial-up/ Modem/Fax (fused)	Power over Ethernet	CCTV	Cable TV/Satellite
STD Clamp Voltage	7.5 Volts	18 Volts	60 Volts	240 Volts	Pins 1, 2, 3 & 6- 7.5 Volts Pins 4, 5, 7 & 8 - 60 Volts	7.5 Volts	90 Volts
Peek Pulse Current 10/1000 us s.c. wave form @Vd	132 Amps	60 Amps	50 Amps	75 Amps	Pins 1, 2, 3 & 6- 132 Amps Pins 4, 5, 7 & 8 - 50 Amps	132 Amps	20 kA (8/20) m sec waveform
Response Time	LESS THAN 5 NANoseconds						
Max. Shunt Capacitance	<40pF	<40pF	<75pF	<95pF	<25pF (Ethernet lines only)	<30pF	1 pF

Ordering Information

		100BASE T RS422, RS485, RS423, Ethernet	RS232	ISDN, T1, DDS (fused)	Dial-up/ Modem/Fax (fused)	Power over Ethernet	CCTV	Cable TV Satellite
16 port flush mount unit (Figure A.)	All Pins	1000BT-RAK16	RS232-RAK16	T1-RAK16	X	POE-RAK16-60V B*	X	X
	Center 2 Pins	X	X	X	TEL-RAK16	X	X	X
16 port stand-off unit (not shown)	All Pins	1000BT-RAK16	RS232-RAK16-SO	T1-RAK16-SO	X	X	X	X
	Center 2 Pins	X	X	X	TEL-RAK16-SO	X	X	X
32 port stand-off unit (not shown)	All Pins	1000BT-RAK16	RS232-RAK32-SO	T1-RAK32-SO	X	X	X	X
	Center 2 Pins	X	X	X	TEL-RAK32-SO	X	X	X
16 port flush mount unit (Figure B.)	Coax	X	X	X	X	X	CCTVRAK16	CATV-RAK16
16 port flush mount unit front accessible modules (Figure C.)	X	X	X	T1-RAK16-1U ⁽¹⁾	X	X	X	X

* Also available in Power Mode A

Dimensions (in mm)

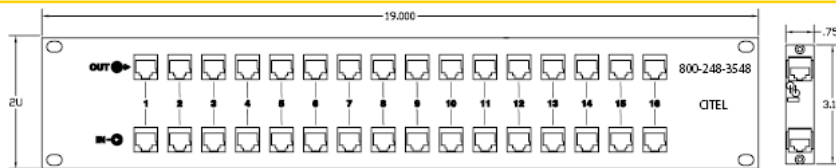


FIGURE A



FIGURE B



FIGURE C