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## ZONE BARRIER SERIES

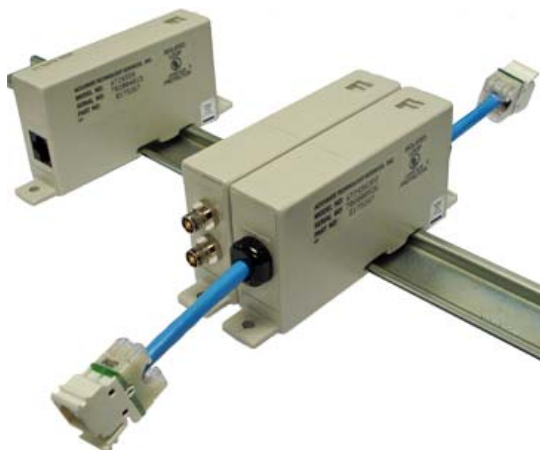
Part #AT91381

The effective barrier between surges and sensitive I/O ports.



- Application:** The AT91381 protects high speed low voltage RS422 digital interfaces from transients caused by direct or indirect lightning.
- Installation:** The Zone Barrier series can be mounted on any standard 35mm DIN rail, or any flat surface. Ground wire is required for surface mounted applications and will be included with purchase.
- Technology:** High energy gas discharge tubes are combined with a network of ultra fast diodes, silicon avalanche diodes and current limiting components to form three distinct stages of protection.
- Approval:** UL497A listed, tested to IEC801-5, CCITT K17

### SPECIFICATIONS



Circuit Type: 3 Stage Series Hybrid  
Lines Protected: 4 + Shield  
Connectors: DB9, Female on both sides  
Surge Capacity: 10,000A 8/20 $\mu$ s impulse per line  
10,000A 8/20 $\mu$ s shield to ground  
Let-through Voltage: 12V @ 5kV (10/700 $\mu$ s) CCITT K17  
Clamp Voltage: 15V @ 2kA 8/20  
Normal Working Voltage: 6V  
Max. Working Voltage: 7.5V  
Max. Leakage Current: 5  $\mu$ A @ rated Voltage  
Max Inline Resistance: 4.3 Ohms  
Case Dimensions: 5.1" x 2.3" x 1.0" overall  
Band Width: > 50MHz @ -3dB in 50 Ohm system

Clamping Voltage measured between a pair during the common mode application of 2kV (1.2-50  $\mu$ s) 1kA (8/20  $\mu$ s) waveform