

32 Channel RS485 Isolator



Protects downstream equipment against electrostatic discharge events (ESD) and against upstream faults with at least 2 kV isolation.

Prevents ground loop signal level errors common in long distance serial links that affect signal integrity.

Safely increases link distance without compromising quality and reliability.



PRODUCT FEATURES

- Isolated bidirectional 4-wire or 2-wire data link up to 1.5 Mb/s rates
- Isolated grounds between input and output
- Up to 1.2 km distance (4000 ft) depending on data rates
- Differential receivers for electrical noise tolerance
- Switchable 120 ohm terminations to reduce bit error signal echoes
- 19" rack-mountable enclosure
- Lightweight 5052-H32 aluminum alloy enclosure
- IEC-60320-C14 fused inlet with cord retaining clip to prevent unintentional disconnects
- Redundant power supplies with external LED health indicators
- 85-264 VAC 47-63 Hz wide power input range
- Transient suppression on data lines

- Power supplies conform to conducted and radiated EMI EN55011-B, EN55032-B, CISPR11-B, CISPR22-B, EN61204-3 Class A

SPECIFICATIONS

Electrical Power

- Input: single-phase
- Input voltage range: 85 to 264VAC
- Efficiency: 90% typ

Data Signals

- Channel count: 16 or 32
- Full-duplex or half-duplex operation
- Termination: 120 ohms switchable
- Bias resistors: 4.7K pull-up switchable
- Isolation: 2000V optical

Surge Suppression

- Devices: TVS diodes
- Response time: <1 pico-second

Packaging

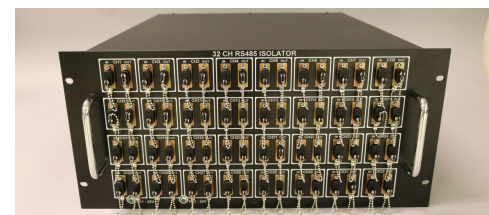
- 19" rack mount standard
- Lightweight aluminum 5052-H32
- Replaceable components to reduce downtime
- Convection cooling (no fan)

DB9 Connectors

- DB9 male input connectors
- DB9 female output connectors

Environmental

- Operating temperature range: -25 to 70°C
- Storage temperature range: -40 to 85°C
- Humidity: 5-95%
- Altitude: 3000m
- Cooling: convection



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