

ULI-238TS BB-CANOP

CAN (Control Area Network) Optical Isolator



Features

- Boost signals and increase node capacity of CAN networks
- Works with various CAN protocols and frame lengths
- 2,000 Vdc optical isolation protection from surges and spikes
- Data rate: up to 250 kbps (bit-wise enable)
- DIN rail mount enclosure – ideal for industrial cabinets
- 10-30 Vdc external power required (not included, sold separately)

Introduction

Model ULI-238TS increases the node capacity of CAN (Control Area Network) systems while protecting from component destroying surges and transients. 2,000 Vdc optical isolation separates and protects critical segments of the system from the rest of the CAN network. Protocol independent, it works with different CAN protocols and frame lengths. Bit-wise enable function automatically adjusts for different baud rates. See quick start guide for bit-wise enable and termination details.

Specifications

Serial Technology

- Baud Rate: 250 kbps, maximum
- CAN Connectors: Terminal blocks
- Turnaround: <math><2\mu</math> seconds
- LEDs: TD, RD (may be difficult to see at high baud rates)

Isolation

- Voltage: 2k Vdc
- Time: 2kV RMS/1 minute

Power

- Input: 150 mA @ 12 V, fully loaded
- Source: External PSU, 10-30 Vdc, required (sold separately)

Environmental

- Operating Temperature: 0 to +70 °C
- Storage Temperature: -40 to +85 °C
- Operating Humidity: 95%, non-condensing

Mechanical

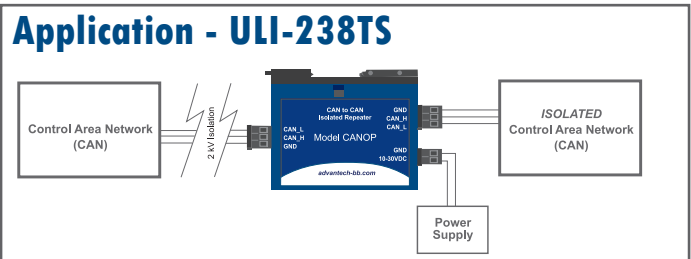
- Enclosure: Plastic
- Dimensions: 93 x 86 x 36 mm
- Mounting: In-line
- Weight: 80 gm

Meantime Between Failures (MTBF)

- Calculation Method: MIL217F Parts Count Reliability Prediction
- MTBF: 269297 hours

Regulatory/Approvals/Certifications

- Approvals: FCC, CE
- CE Directives: 2014/30/EU – Electromagnetic Compatibility Directive
2011-65/EU – amended by (EU) 2015/863 Reduction of Hazardous Substances Directive
2012/19/EU – Waste Electrical and Electronic Equipment
- CE Standards: EN 55032 – Class A Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements
EN 55024 – Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
EN 61000-6-1 – Generic Immunity Standard for Residential, Commercial and Light-industrial Environments



Ordering Information

Model	Part Number to Order	Description
ULI-238TS	BB-CANOP	2 kV CAN Isolator