CAN BUS EXTENDER / REPEATER

PN: 6301

VITAL Systems CAN Bus Extender / Repeater is used to extend CAN bus length by reproducing CAN packets from one channel to the other. Packets can have Standard (11-bits) or extended (29-bits) identifiers. The device is also used for the galvanic isolation of two segments of a CAN network and for creating star or tree topologies. The device can also quarantine defective segments from the network and automatically reconnect them into the network once the error condition is removed.

The network architecture allows multiple Bus Extenders to be daisy chained for even longer network lengths. These modules can also be used to create branches of network without the need for the network cable to loop back.

The default bus speed is set at 125 Kbps. If your system requires a different bus speed, please specify this information when placing the order.

Key Features

- Status LEDs for Network Power, Transmit Packet, Receive Packet, and Error condition.
- CAN 2.0 Standard and Extended Identifiers Supported
- DeviceNET compatible.
- No PC-Host required.
- No MAC ID assignment needed.
- 1000 feet cable length on each side (Belden Cable 3086A or better) at 125 Kbps.
- Less than 1 millisecond required for packet transfer from one channel to the other
- Powered by network.

Specifications

Network	CAN 2.0 Standard & Extended Frames
Voltage Range	18 to 28 Vdc
Current Consumption	Network: 60 mA
Dimensions	0.9 * 2.6 * 4.5 (H*W*L) Inches
Enclosure	Plastic Nema-4
Thru-Put	1900 packets/second total thru-put (Full Duplex)
Display	Transmit (2 green LEDs), defective segment (2 red LEDs)
CAN bus interface	Phoenix style Screw terminals.
Baudrate	Up to 1Mbps
Galvanic isolation	1 kV. The two CAN networks are optically isolated.
Certification	CE
Temperature range	-20 ºC ... +70 ºC
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