



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CAN (Control Area Network) Optical Isolator

Model CANOP

B+B SMARTWORX

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PRODUCT FEATURES

- Boost signals and increase node capacity of CAN networks
- Protocol independent - works with different CAN protocols and frame lengths
- 2,000V optical isolation protection from surges and spikes
- Terminal block connections (copper)
- DIN rail mount enclosure ideal for industrial cabinets

ORDERING INFORMATION

MODEL NUMBER	ISOLATION	CAN (COPPER)
CANOP	2,000 VDC	Terminal Blocks

ACCESSORIES

MDR-20-24 - 24 VDC DIN rail mount power supply, 1.0 A output power

SPECIFICATIONS

SERIAL TECHNOLOGY	
Baud Rate	250 kbps maximum
CAN Connector	Terminal blocks
Turnaround	< 2 μ seconds
LEDs	TD, RD (may be difficult to see at high baud rates)
ISOLATION	
	2,000 VDC
POWER	
Power	150 mA @ 12V, fully loaded
Source	External, 10-30 VDC, required
MECHANICAL	
Dimensions	9.3 x 8.6 x 3.6 cm (4.0 x 3.4 x 1.4 in)
Enclosure	35mm DIN rail mount
MTBF	269297
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction Method
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C (+32 to +158 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)

Model CANOP increases the node capacity of CAN (Control Area Network) systems while protecting CAN networks from component destroying surges and transients. The CANOP provides 2,000 VDC of optical isolation to separate and protect critical segments of the system from the rest of the CAN Network. It is protocol independent, allowing it to work with different CAN protocols and frame lengths.

According to the CAN specification, the CAN network must be terminated at both ends. Networks that are not properly terminated may experience data errors or miss data completely. The CANOP creates two new ends to the CAN network. Space is provided on the board for a termination resistor on each side, R6 and R8 (120 Ohm resistor recommended). If the CANOP is not at the end of the network, it should not be terminated.

The CANOP is bit-wise enable, allowing it to automatically adjust for different baud rates. Bit-wise enable only enables the driver on every low bit received. It also disables the driver on the receive side for the low bit plus a maximum of 2 μ seconds. This prevents data from echoing back from the CANOP, but allows the nodes to respond back.

CAN in Industrial Automation

The multi-layer structure of Controller Area Network (CAN) allows any station on a serial bus to communicate with any other station. There are also benefits in central control and self-diagnosis and correction of transmission errors. A number of CAN-based, higher level protocols have been developed for use in industrial automation applications. CAN Application Layer (CAL), CAN Kingdom, CAN-open, DeviceNet and Smart Distributed System are just a few of these variations.

All product specifications are subject to change without notice.

CANOP_1717ds

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