



## Type CDN366

### DEVICENET™ SERIAL GATEWAY

The CDN366 is a compact RS232 to DeviceNet serial gateway. The unit is housed in a 2½ x 3¼ plastic housing with mounting tabs. A 5-pin micro connector provides the DeviceNet interface and a 9-pin D connector provides the RS232 interface. Supplied DeviceNet power is conditioned by a loss-of-ground protection and the RS232 serial channel is fully isolated from DeviceNet power.

The CDN366 may be used to interface peripheral devices to a DeviceNet system. The RS232 serial stream is internally buffered, allowing a Master node to send and receive data using standard DeviceNet poll, cos, or explicit messaging.

#### DeviceNet™ Model

CDN366 provides advanced processing features over the CDN066 including parsing of complex serial packet and data type conversion. The CDN366 can process serial packets of up to 28 data bytes and features a 255 byte buffer to ease the interface to slower RS232 devices.

### Features & Benefits

- Fully isolated DeviceNet channel
- Powered from 11-28 VDC power
- Rotary MacId rate switch
- 2 bi-color LED's for module status
- 2 bi-color LED's for serial channel status
- Software selectable serial baud rate (300-19200 baud)

#### DeviceNet Connector (5 pin MALE micro connector)

Pin	Function
1	Drain
2	BUS +
3	BUS -
4	CAN H
5	CAN L

#### RS232 Connector (DB-9 Male)

Pin	Function
1	N.C.
2	Receive Data
3	Transmit Data
4	DTR/DTS Loopback to Pin 6
5	Ground
6	DTR/DTS Loopback to Pin 4
7	Request to Send
8	Clear to Send
9	N.C.



# Specifications and Ordering Information

## DeviceNet Interface

Power Requirements	11-28 VDC @ 50mA
Loss of Ground	Yes
Reverse Polarity	-30 VDC
Signal Levels	ISO11848

## RS232

Isolation	500 Volts
ESD Protection	± 10 kV
Overload Protection	± 30 Volt
Short Circuit	Indefinite
Output Levels	± 7.9 Volts (typical)
Data Size	8/7 bits (software config.)
Parity	Even/Odd/None
Stop Bits	½ (software configurable)
Data Rate	300, 1200, 2400, 4800, 9600, 19.2k, 1/2 (software selectable)
Flow Control	None. RTS/CTS, X-ON/X-OFF (software selectable)

## Environmental

Temperature	0-70°C
Size	3.25 x 2.37 x 1.08
Mounting	½ inch tab, 3/16 diameter Mtg Hole

## Ordering Code Example: CDN366

Type	Code	Configuration
Type CDN366 DeviceNet Serial Gateway	CDN366	CDN366

### Serial Stream Instance 1 Attributes

Attribute	Access	Name	Type
3	Get/Set	Baud Rate	UDINT
4	Get/Set	Data Bits	USINT
5	Get/Set	Parity	USINT
6	Get/Set	Stop Bits	USINT
7	Get/Set	Flow Control	USINT
10	Get/Set	Delimiter Mode	USINT
11	Get/Set	Pre-Delimiter List	SHORT_STRING
12	Get/Set	Post-Delimiter List	SHORT_STRING
13	Get/Set	Packet Length	USINT
14	Get/Set	Packet Timeout	USINT

### Serial Stream Receive Instance Attributes

Attribute	Access	Name	Type
3	Get/Set	Receive Data	Settable
4	Get	Receive Toggle	BOOL
5	Get/Set	Receive Acknowledge	BOOL
6	Get/Set	Mode	USINT
7	Get/Set	Pre-String	SHORT_STRING
8	Get/Set	Post-String	SHORT_STRING
9	Get/Set	Data Type	USINT
10	Get/Set	Data Size	USINT
11	Get/Set	Width	USINT
13	Get/Set	Conversion	USINT
15	Get/Set	Data in Poll Response	BOOL
16	Get/Set	Enable	BOOL
17	Get/Set	Sync Enable	BOOL

### Serial Stream Transmit Instance Attributes

Attribute	Access	Name	Type
3	Get/Set	Transmit Data	Settable
4	Get/Set	Transmit Toggle	BOOL
5	Get	Transmit Acknowledge	BOOL
6	Get/Set	Mode	USINT
7	Get/Set	String 1	SHORT_STRING
8	Get/Set	String 2	SHORT_STRING
9	Get/Set	Data Type	USINT
10	Get/Set	Data Size	USINT
11	Get/Set	Width	USINT
12	Get/Set	Precision	USINT
13	Get/Set	Conversion	USINT
15	Get/Set	Data in Poll Command	BOOL



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