



AS01367-0x

DEVICENET™ SERIAL GATEWAY

The AS01367 is a compact RS422/485 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 RS422/485 interface. The DeviceNet channel is fully isolated from the supplied power.

The AS01367 may be used to interface peripheral devices to a DeviceNet system. The RS422/485 serial stream is internally buffered, allowing a Master node to send and receive data using standard DeviceNet messaging.

The power is conditioned by a loss-of-ground protection circuit and applied to a non-isolated DC-DC converter to provide 5 volts @ 500 mA. An isolated DC-DC converter provides power to the DeviceNet channel.

DeviceNet™ Model

AS01367 provides a fully buffered serial interface between DeviceNet and peripheral devices. Internal FIFO's, buffer up to 256 bytes of receive and transmit data, easing the interface to slower RS422/485 based devices. Hardware or software flow control is supported.

Features & Benefits

- Fully isolated DeviceNet channel
- Powered from 11-28 VDC power
- Rotary MacId and Baud Rate switches
- 2 BI-color LED's for Module status
- 2 BI-color LED's for serial channel status
- Selectable Serial Baud Rate (300-38,400 kbaud)

Applications

- Barcode Scanner
- Vision Systems
- Weigh Scales
- Power Supplies
- Operator Interfaces
- Message Displays
- Intelligent Field Sensors and Actuators
- ASCII Serial Equipments

Specifications and Ordering Information

DeviceNet Interface

Power Requirements	11-28 VDC @ 50mA
Loss of Ground	Yes
Reverse Polarity	-30 VDC
Signal Levels	ISO11598

RS422/RS485

Isolation	500 Volts
ESD Protection	±10 kv
Overload Protection	±30 Volt
Short Circuit	Indefinite
Data Size	8/7 bits (software config.)
Parity	Even/Odd/None
Stop Bits	1/2 (software configurable)
Data Rate	300,1200, 2400, 4800, 9600, 19.2, 38.4
Flow Control	None. X-ON / X-OFF

Environmental

Temperature	0-50°C
Size	3.25" x 2.37" x 1.08"
Mounting	½" tab, 3/16 diameter Mtg Hole
Encapsulation	RTV Silicon Compound

Ordering Code Example: AS01367-0x - DeviceNet Serial Gateway

DeviceNet Connector (5 pin MALE micro connector)		RS422 Connector (DB-9 Male)		RS485 Connector (DB-9 Male)	
Pin	Function	Pin	Function	Pin	Function
1	Drain	1	RxB	1	RS485 B Signal
2	BUS +	2	RxA	2	RS485 A Signal
3	BUS -	3	Terminating Res. 120	3	Rx Terminating Res. 120
4	CAN H	4	Loop interface, connect to pin 5	4 to 8	Do not connect
5	CAN L	5	Loop interface, connect to pin 4	9	Repeater Control, Active Low Rx
		6	TxB		
		7	TxA		
		8	Tx Terminating Res. 120		
		9	No connect		

PinOuts



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