## DeviceNet master module

- Monitor mode identifies and interrogates devices on the DeviceNet network; nodes selectable via onboard switches.
- Supports bit-strobe, poll, change-of-state, cyclic, and explicit messaging. 125K, 250K, and 500K baud rates are supported.
- ODVA compliant.

DeviceNet specifications				
Number of ports	1			
Connector	Pluggable screw-down 5-pin			
Baud rate	125, 250, 500 KBaud			
MAC ID range	0-63			
Maximum cable trunk	500 m			
Operating mode	Master			
Message formats	Poll, change-of-state (COS), cyclic, explicit messaging, bit-strobe			
Compliance	ODVA			
Other specifications				
Module size	2 rack slot (1.5"/38 mm)			
Module weight	90 g			
Bus power required (5 VDC)	0.26 mA			
Isolation rating	500 VDC			
Operating temperature Horizontal installation Vertical installation	0 - 50°C 0 - 45°C			
Storage temperature	−25 − 85°C			
Humidity	5 – 95% non-condensing			

### Note:

1. The information and illustrations contained herein are the property of Control Technology Corporation and are subject to change without notice. Data based on VS = 24 VDC @ 25°C unless otherwise noted. For additional information and/or updates, visit www.ctc-control.com. Copyright © 2008 Control Technology Corporation. All Rights Reserved.

Minimum hardware revision	0, A	
Minimum firmware revision	1.01	
Minimum operating system revision	5.00.90R43	
Documentation number: 950-536101-002		



**Actual size** 

# 5300 I/O Modules

## DeviceNet master module

CN

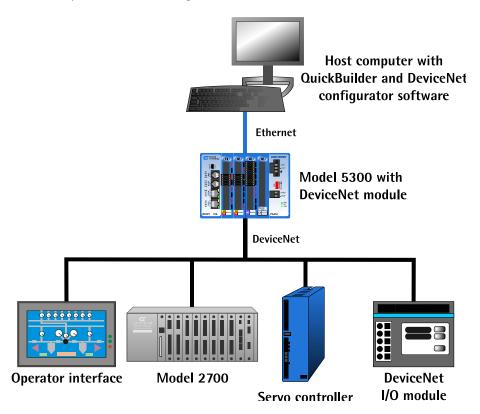
M3-61A

The M3-61A module is a DeviceNet master. CTC's DeviceNet configurator software is used to create a network configuration and load it into the DeviceNet master residing on a Model 5300 automation controller. The master module then establishes links to each device on the network and masks the devices' I/O points and other resources locally for program access using QuickBuilder.

The configurator also has a monitor mode that identifies and interrogates any device on a DeviceNet network. This mode is especially useful when a device's documentation or electronic data sheet (EDS) is not readily available. Monitor mode can establish links, execute link commands, send and receive data, and generate a network traffic log.

The Model M3-61A supports bit-strobe, poll, change-of-state (COS), cyclic and explicit messaging. All three baud rates (125K, 250K, and 500K) are available, and node selection is available with simple on-board switches that are accessible via the front of the module.

The Model M3-61A is equipped with a 32-bit processor, allowing operation of the DeviceNet network at full rated speed without encumbering the controller's CPU. Complete messages are assembled locally on the Model M3-61A module and are then passed to the controller's processor for servicing.



# DeviceNet master module CN M3-61A

# DeviceNet master module

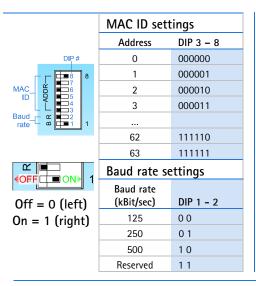
# **Electrical specifications**

Parameter	Min	Тур	Max	
Power requirements (from controller)				
Logic supply (3.3V)		250 mA	400 mA	
Auxiliary supply (24V from 24V bus)		0 mA	0 mA	
DeviceNet power	11 VDC	24 VDC	28 VDC	
DeviceNet load		100 mA	150 mA	
DeviceNet miswiring protection			24 VDC	

# DeviceNet master module

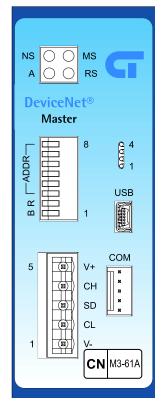
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M3-61A



#### DeviceNet pinouts Pin # Signal (E) (E) V+ (Red) ۷+ 4 CANH (White) СН Shield 3 SD CAN-L (Blue) 2 CL V- (Black)

## M3-61A Module



# Module LEDs

NS O MS
A RS

	Name	States			
	NS (Network	Off	Device is not powered (MS LED will be off in this case) or not online		
	status)	Green	Link OK. Online, connected		
		Flashing green	Online, not connected		
		Flashing red	Minor fault on one or more connections		
		Red	Critical link failure		
	Α	N/A	Reserved for future use		
	MS (Module status)	Off	No power or not initialized		
		Green	Normal operating state		
		Flashing green	Device in standby or needs commissioning due to configuration missing, incomplete or incorrect		
		Flashing red	Recoverable fault		
		Red	Unrecoverable fault		
		Flashing red/green	Device in self test		
	RS (Run	Off	No power or not initialized		
status	status)	Green	Run mode		
		Flashing green	Idle mode		

#### Note

 LEDs 1-4, USB and COM port are reserved for future use.