DeviceNet slave module

DeviceNet slave module

- Provides DeviceNet access to Model 5300 I/O and register resources.
- Supports bit-strobe, poll, change-of-state, cyclic, and explicit messaging. 125K, 250K, and 500K baud rates are supported.
- *ODVA* compliant.

DeviceNet specification	15			
Number of ports	1			
Connector	Pluggable screw-type 5-pin			
Baud rate	125, 250, 500 KBaud			
MAC ID range	0-63			
Maximum cable trunk	500 m			
Operating mode	Slave			
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	0 - 50°C			
Vertical installation	0 - 45°C			
Storage temperature	-25 – 85°C			
Humidity	5 – 95% non-condensing			

Note:

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Minimum hardware revision	0, A
Minimum firmware revision	1.02
Minimum operating system revision	5.00.90R46
Documentation number: 950-536102-000	



5300 I/O Modules

CN

DeviceNet slave module

M3-61B

5300

The M3-61B module is a DeviceNet slave interface that allows 5300 I/O to be easily added to a DeviceNet network providing a low-cost way to incorporate CTC's high density I/O modules into an automation system. The slave module can access digital and analog I/O directly and other resources via registers. Typical configurations are:

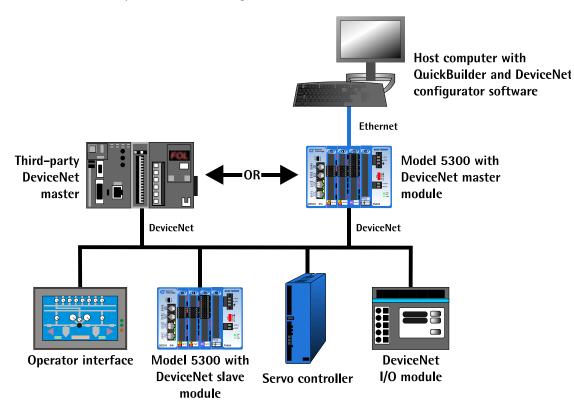
Slave Only: The 5300 is used strictly as high density remote I/O under complete control of the remote DeviceNet Master.

Slave plus local program control: The 5300 runs a QuickBuilder logic control program locally and also allows selected I/O and registers to be read and written by a remote DeviceNet master.

Master and Slave plus local program control: The 5300 supports having both a DeviceNet Master (M3-61A) and Slave (M3-61B) in a single system. The slave module can access both the local 5300 I/O as well as remote I/O devices connected via the master.

The Model M3-61B 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 M3-61B 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 M3-61B module and are then passed to the controller's processor for servicing.



DeviceNet slave module	CN	M3-61B	
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DeviceNet slave 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				

5300 I/O Modules

DeviceNet slave module

СМ М3-61В

	MAC ID settings		DeviceNet pinouts		M3-61B Module
	Address	DIP 3 – 8	Pin	# Signal	
DIP#	0	000000	5 🔳 V+ 5	V+ (Red)	
8 8	1	000001		CANH (White)	
	2	000010		Shield	
	3	000011	(III) SD 2	CAN-L (Blue)	
Baud <u> </u>			(III) CL 1	V- (Black)	
	62	111110	1 3		DeviceNet®
	63	111111			Slave
	Baud rate	settings			
Off = 0 (left)	Baud rate (kBit/sec)	DIP 1 - 2			ADDR ADDR 1 a a b b b b b b b b b b b b b b b b b
On = 1 (right)	125	00			
	250	0 1			
	500	10			
	Reserved	11			
Module LEDs	Name	States			5 V+ COM (R) CH
	NS (Network	Off	Device is not powered (MS LED will be off in this case) or not online Link OK. Online, connected Online, not connected		(III) CH (III) SD ■ ■
	status)	Green			
		Flashing green			
		Flashing red	Minor fault on one or more co	onnections	
		Red	Critical link failure		CN M3-61B
	Α	N/A	Reserved for future use		
	MS	Off No power or not initialized		Note	
	(Module	Green	Normal operating state		1. LEDs 1-4, USB and COM
	status)	Flashing green	Auto band in progress		port are reserved for
		Flashing red	Recoverable fault		future use.
		Red	Unrecoverable fault		
		Flashing red/green	Device in self test		
	RS (Run	N/A	Not used		