DeviceNet™ Device Level Network Master Module

The DeviceNet master module allows the Q Series to control systems that require integration of third party DeviceNet products. The QJ71DN91 module is configured by use of the GX Configurator-DN plug-in for GX Developer or GX Configurator2-DN in GX Works2. Note that this module is also capable of functioning as a DeviceNet slave if required.

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Model Number				QJ71DN91					
Stocked Item				S					
Certification				UL • cUL • CE					
Node Type				DeviceNet master (Group 2 only client)					
Node Number Which Can be Set				0 to 63					
Functioning as Master	Number of Connections that Can be Created	Message Connection		63					
		I/O Connection		63 (polling, bit strobe, change of state, cyclic)					
	Amount of Communication Data	I/O Communication	Send	Max. 4096 points (512 bytes), max. 256 bytes per 1 node					
			Receive	Max. 4096 points (512 bytes), max. 256 bytes per 1 node					
		Message Send		Max. 240 bytes					
		Communication	Receive	Max. 240 bytes					
	Node Type			DeviceNet slaves (Group 2 server)					
Functioning as Slave	Setting Possible Node Number			0 to 63					
	Number of Connections that Can be Created	t I/O Connection		1 (polling)					
	Amount of Communication Data	I/O Communication	Send	Max. 1024 points (128 bytes)					
			Receive	Max. 1024 points (128 bytes)					
Transmission	Speed		One speed can be selected from 125, 250 and 500kbit/s						
Maximum Cable Length (*1)				Communications Speed	Maximum Transmitting Distance of Trunk Line			Length of Drop Line	
					Thick Cables	Thin Cables	Thick and Thin Cables Coexist	Maximum	Total
				125kbaud	500m (1640 ft.)	100	See table below	6m (20 ft.)	156m (511 ft.)
			250kbaud	250m (820 ft.)	100m (328 ft.)	78m (256 ft.)			
				500kbaud	100m (328 ft.)	(320 11.)			39m (128 ft.)
Current Consumption Required on the Network (A)				0.03					
I/O Device Points Occupied				32 points					
5VDC Internal Current Consumption (A)				0.17					
Weight (kg)				0.11					
Base Unit Slots Occupied				1					
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Note 1: The maximum cable length complies with that in the DeviceNet specification (release 2.0) volumes 1 and 2.

Combined Distance of Thick and Thin Cables

Transmission Speed	Max, Combined Distance of Thick and Thin Cables					
125kbaud	Thick cable length + 5 x Thin cable length ≤ 500m (1640 ft.)					
250kbaud	Thick cable length + 2.5 x Thin cable length ≤ 250m (820 ft.)					
500kbaud	Thick cable length + Thin cable length ≤ 100m (328 ft.)					