

PROFIBUS-DP V1 and V2 Device Level Network Master Module

The QJ71PB92V supports the more recent PROFIBUS-DPV1 and V2 advanced function set.

Model Number		QJ71PB92V			
Stocked Item		S			
Certification		UL • cUL • CE			
PROFIBUS-DP Station Type		Class 1 master station			
Transmissions Specifications	External Standard and Characteristics	EIA-RS485 compatible			
	Communication Cable	Shielded twisted pair cable			
	Network Configuration	Bus type (tree type if repeater is used)			
	Transmission Rate (*1) Maximum Transmission Distance (*2)	Transmission Rate	Transmission Distance	Max. Transmission Distance Using Repeater (*2)	
		9.6kbps	1200m/segment	4800m/network	
		19.2kbps			
		93.75kbps			
		187.5kbps	1000m/segment	4000m/network	
		500kbps	400m/segment	1600m/network	
		1.5Mbps	200m/segment	800m/network	
3Mbps		100m/segment	400m/network		
6Mbps					
12Mbps					
Max. No. of Repeaters In a Path	3 repeaters				
Max. No. of Stations	32 stations per segment (including repeaters)				
Max. No. Slave Stations	125 slaves per single QJ71PB92V master				
I/O Data Size	Max. 8192 words (4096 input words, 4096 output words)				
I/O Device Points Occupied		32 points			
5VDC Internal Current Consumption		0.57A			
Weight (kg)		0.13			
Base Unit Slots Occupied		1			

Notes:

1. Transmission rate control is within ±0.2% (compatible with IEC 61158-2).
2. The "maximum transmission distance" in the above table is an example which assumes that 3 repeaters are being used. If more repeaters are used to extend the distance, the maximum transmission distance would be calculated as follows: [Maximum transmission distance (m/network)] = [Number of repeaters +1] x [transmission distance (m/segment)]

PROFIBUS-DP Device Level Network Slave Module

The QJ71PB93D allows a Q Series system to be connected to a third party PROFIBUS-DP network as a slave controller. This allows distributed processing systems to be built where local control of the application can be given to the Q Series, which then supplies information back to a supervisory controller. This could be another Q Series system, fitted with the QJ71PB92D. Configure the QJ71PB93D using the GX Configurator-DP plug in for GX Developer.

Model Number	QJ71PB93D			
Stocked Item	-			
Certification	UL • cUL • CE			
PROFIBUS-DP Station Type	Slave station (EN50170 Volume 2 (Parts 1-4, 8) compliant)			
Station Number Setting Range	0 to 125 (*3)			
Max. Communication Data Size	Number of I/O data is 192 words in total (Number of input or output data is up to 122 words)			
Transmission Specifications	Electrical Standards	Complies with EIA-RS485		
	Network Cable	Dedicated PROFIBUS DP cable		
	Network Configuration	Bus (tree type when a repeater is used)		
	Transmission Speed / Maximum Transmission Distance (*1, *2)	Transmission Rate	Transmission Distance (m/segment)	Max. Transmission Distance with 3 Repeaters (m)
		9.6 kbps	1200	4800
		19.2 kbps		
		45.45 kbps		
		93.75 kbps		
		187.5 kbps	1000	4000
		500 kbps	400	1600
1500 kbps		200	800	
3 Mbps	100	400		
6 Mbps				
12 Mbps				
Max. Number of Repeaters/Network	3 units (*2)			
Max. Number of Stations/Segment	32 stations (including repeaters)			
Number of Connection Nodes/Segments	32			
I/O Device Points Occupied	32 points			
5 VDC Internal Power Consumption	0.44			
Weight (kg)	0.11			
Base Unit Slots Occupied	1			

Notes:

1. Transmission speed control within $\pm 3\%$ (Compliant with EN50170 Volume 2)
2. Distance that the transmission distance can be expanded by (m/network) using repeaters. Maximum transmission distance (m/network) = (number of repeaters + 1) x transmission distance (m/segment)
3. Factory set to "126" (EN50170 Volume 2 compliant) Set the station number by using sequence program or GX Configurator-DP 4.03D or later. Set communication parameters on the master station side. GSD (DDB) file may be required without GX Configurator-DP Version 4.03D or later. Please contact your local Mitsubishi representative for the GSD (DDB file).