

MODBUS/TCP Network Module

The QJ71MT91 module offers a full MODBUS/TCP network communications facility to any Q Series system. Use this module to establish control of a MODBUS/TCP network of devices from a Q Series based system.

Model Number		QJ71MT91		
Stocked Item		10BASE-T	100BASE-TX	
Certification		UL • cUL • CE		
Transmission Specifications	Data Transmission Rate	10Mbps	100Mbps	
	Maximum Node-To-Node Distance	200m		
	Maximum Segment Length Between a Hub and Node	100m (Indicates the number of TCP connections that can be established simultaneously)		
	Number of Cascade Connection Stages	Max. 4 stages	Max. 2 stages	
	Max. Number of Connections Between a Hub and Node	64 connections (Indicates the number of TCP connections that can be established simultaneously)		
	Number of Routers That Can Be Set	1 default router + any 8 routers		
	Cable (Cable compliant with the IEEE802.3)	10BASE-T Standard (unshielded twisted pair cable (UTP cable), Category 3, 4, 5)	100BASE-TX Standard (shielded twisted pair cable (STP cable), Category 5)	
Connector Applicable For External Wiring		RJ45		
Master Function	Automatic Communication Function	Number of Slaves	64 slaves (Maximum number of slaves that can be communication targets)	
		Input Area Size	4k words	
		Output Area Size	4k words	
	Dedicated Instruction	Number of Instructions That Can Be Executed Concurrently	Up to 8 instructions (maximum number of dedicated instructions that can be started simultaneously from a sequence program)	
		Output Area Size	Max. 253 bytes per instruction	
Slave Function	MODBUS Device Size	Coil	64k points	
		Input	64k points	
		Input Register	64k points	
		Holding Register	64k points	
		Extended File Register	Max. 4086k points	
	No. of Simultaneously Acceptable Request Messages	64		
Number of Simultaneously Connectable MELSOFT PCs		Max. 8		
I/O Device Points Occupied		32 points		
5VDC Internal Current Consumption		0.52A		
Weight (kg)		0.11		
Base Unit Slots Occupied		1		

MODBUS® RTU Master Module

The QJ71MB91 module adds MODBUS RTU capability to a Q Series system. Use this module to communicate with and control any of a wide variety of third party MODBUS compatible products.

Model Number		QJ71MB91			
Stocked Item		S			
Certification		UL • cUL • CE			
Transmission Specifications	Number of Interfaces	RS-232 1 channel; RS-422/485 1 channel			
	Transmission Speed (bps)	Total transmission speed of two interfaces must be 115200 bps or less			
		300	600	1200	2400
		4800	9600	14400	19200
		28800	38400	57600	115200
Transmission Distance (Overall Distance)	RS-232	Max. 15m (49.2 ft.)			
	RS-422/485	Max. 1200m (3936.9 ft.) (Overall distance)			
Master Function	Automatic Communication Function	Number of Slaves	32 per channel (Indicates the max. number of slaves that can be communication targets.)		
		Input Area Size	4k words		
		Output Area Size	4k words		
	Dedicated Instruction	Number of Instructions That Can Be Executed Concurrently	1 per channel (Max. number of dedicated instructions that can be activated simultaneously from a sequence program)		
		Output Area Size	Max. 253 bytes per instruction		
Slave Function	MODBUS® Device Size	Coil	64k points		
		Input	64k points		
		Input Register	64k points		
		Holding Register	64k points		
		Extended File Register	Max. 4086k points		
	Number of Simultaneously Acceptable Request Messages	1 request per channel			
Station Number		1 to 247			
I/O Device Points Occupied		32 points			
5VDC Internal Current Consumption		0.31A			
Weight (kg)		0.20			
Base Unit Slots Occupied		1			