Information Modules

Serial communication modules provide a way to link the Q Series system to third party systems that offer standard serial RS-232 or RS-422/485 communication ports. Examples of typical connections include modems, scales, bar code readers, printers and marquee displays. The modules can be regarded as communication coprocessors, as they support a variety of dedicated communication functions that are accessed via special CPU instructions. These functions reduce the amount of specialist communications programming required.

Serial Communication Modules

Model Number		QJ71C24N	QJ71C24N-R2	QJ71C24N-R4
Stocked Item		S	S	S
Certification		UL • cUL • CE		
Interface	CH1	RS-232 compliance (D-sub 9P)	RS-232 compliance (D-sub 9P)	RS-422/485 compliance (2-piece plug-in connector socket block)
	CH2	RS-422/485 compliance (2-piece terminal block)	RS-232 compliance (D-sub 9P)	RS-422/485 compliance (2-piece plug-in connector socket block)
Communication Method		Full duplex communication/half duplex communication		
Synchronization Method		Start-up synchronization method		
Transmission Speed		50 / 300 / 600 / 1200 / 2400 / 4800 / 9600 / 14400 / 19200 / 28800 / 38400 / 57600 / 115200 / 230400 Transmission speed 230400 bps is available for only CH1. (Not available for CH2); Total transmission speed up to 230400 bps for two interfaces; Transmission speed of up to 115200 bps for each interface available when two interfaces are used simultaneously		
Data Format	Start Bit	1		
	Data Bit	7/8		
	Parity Bit	1 (vertical parity) or none		
	Stop Bit	1/2		
Access Cycle	MC Protocol Communication	Processes one request during installed PLC CPU END processing. Number of scans that must be processed/number of link scans depends on the contents of the request		
	Nonprocedural Protocol Communication Bidirectional Protocol Communication	Sends each time a send request is issued. Can receive at any time.		
Error Detection	Parity Check	For all protocol, select odd/even by the parameter when there is an error		
	Sum Check Code	Select by the parameter for MC protocol/Bidirectional protocol. Select by the user frame for non-procedure protocol.		
Transmission Control		DTR/DSR (ER/DR) Control: RS-232 •, RS-422/485 - RS/CS Control: RS-232 •, RS-422/485 - CD Signal Control: RS-232 •, RS-422/485 - DC1/DC3 (Xon/Xoff) Control, DC2/DC4 Control: RS-232 •, RS-422/485 • • DTR/DSR signal control and DC code control are selected by the user		
Line Configuration	RS-232	1:1	1:1	-
	RS-422/485	1:1, 1:n, n:1, m:n	-	1:1, 1:n, n:1, m:n
Max. Transmission Distance	RS-232	15m (49.2 ft.)	15m (49.2 ft.)	-
	RS-422/485	1200m (4592.4 ft.) (overall distance)	-	1200m (4592.4 ft.) (overall distance)
I/O Device Points Occupied		32 points per slot (I/O assignment: Intelli: 32 points)		
Applicable Connector for External Wiring		9 pin D-sub (male) screw type		-
5VDC Internal Current Consumption		0.31A	0.26A	0.39A
Weight kg (lbs)		0.20 (0.44)		
Base Unit Slots Occupied		1		