

ControlWave[®] Micro Communication Modules

Communication modules provide the ControlWave[®] Micro with additional communication ports. A maximum of two communication modules can be added to a ControlWave Micro unit. You can install communication modules in slots three and four of the ControlWave Micro.

Note: For further information on the built-in communication ports on the ControlWave Micro, refer to *Product Data Sheet CWMICRO*.

There are two types of communication modules available:

- Two-port serial communications module – one RS-232 port, one RS-485 port, optional 900 MHz and optional 56KB PL/PSTN dial-up modem kit.
- Four-port serial communications module – two RS-232 ports and two RS-485 ports.

Two-Port Serial Communications Module

The two-port serial communications module provides one RS-232 port and one RS-485 port. The top communication port (labeled EC4/8) supports RS-232 operation. The bottom communication port (labeled EC5/9) supports

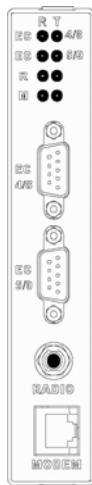
RS-485 operation. Both ports support speeds of up to 115.2 KB. The RS-485 port provides 500 Vdc isolation.

A dial-up modem option is available for the two-port serial communications module. This option is in addition to the RS-232 and RS-485 ports. A two-port serial communication module with the modem option effectively has three communication ports available.

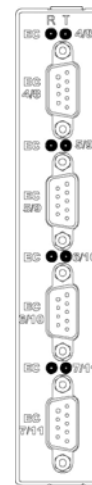
The optional dial-up modem option provides 56 KB communications over a publicly switched telephone network (PSTN). You can also transmit and receive DTE/DCE serial data at rates of up to 115.2 kHz. You can order the kit factory pre-installed or you can install it yourself.

Four-Port Serial Communications Module

The four-port serial communications module provides two RS-232 and two RS-485 ports. The top two communication ports (labeled EC4/8 and EC5/9) support RS-232 operation. The bottom two communication ports (labeled EC6/10 and EC7/11) support 500 Vdc isolated RS-485 operation. All four ports support speeds of up to 115.2 KB.



Two-Port Serial Communications Module



Four-Port Serial Communications Module

Two-Port Serial Communications Module

Communications		
RS-232 Ports	Quantity	1
	Type	9-pin male D-sub connector
	Baud Rate	Up to 115.2 KB
RS-485 Ports	Quantity	1
	Type	9-pin male D-sub connector
	Baud Rate	Up to 115.2 KB
	Isolation	500 Vdc
Dial-Up Modem Kit (optional)	Type	56 KB PSTN Hayes-type dial-up modem module for publicly switched telephone network (PSTN) operation
	Baud Rate	56 KB
Power		
Consumption	Two-Port Serial Communications Module	0.53 W
	Dial-Up Modem Kit	0.8 W
Physical		
Dimensions	152.4 mm H by 25.4 mm W by 88.9 mm L (6 in. H by 1 in. W by 3.5 in. L)	
LEDs	8 status indicators, one receive and one transmit per port	
Weight	164 g (5.8 oz)	
Environmental		
Same as the ControlWave Micro in which it is installed		
Approvals		
Same as the ControlWave Micro in which it is installed		

Four-Port Serial Communications Module

Communications		
RS-232 Ports	Quantity	2
	Type	9-pin male D-sub connector
	Baud Rate	Up to 115.2 KB
RS-485 Ports	Quantity	2
	Type	9-pin male D-sub connector
	Baud Rate	Up to 115.2 KB
	Isolation	500 Vdc
Power		
Consumption	0.6 W	
Physical		
Dimensions	152.4 mm H by 25.4 mm W by 88.9 mm L (6 in. H by 1 in. W by 3.5 in. L)	
LEDs	8 status indicators, one receive and one transmit per port	
Weight	141 g (5 oz)	
Environmental		
Same as the ControlWave Micro in which it is installed		
Approvals		
Same as the ControlWave Micro in which it is installed		

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