

FB3000 4-Port Serial Communications Module

The FB3000 4-port Serial Communications module (COM04) provides the FB3000 with additional communication ports beyond those available on the CPU module.



Important

The 4-port Serial Communications module can **only** reside in slots 2 through 8 of the **base** FB3000 chassis. You **cannot install** a 4-port Serial Communications module in an **extension** chassis.

The module has two parts: a Logic module (3SERL4) and a Personality module (3SRSG4). The Logic module resides in the upper position of a slot in the FB3000 chassis. The Personality module resides in the lower position of the same slot and provides both built-in surge protection and connections for field devices.

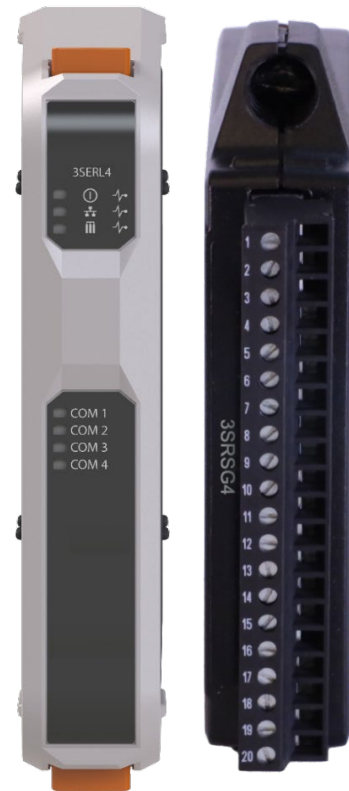
Local Terminations

The Personality module enables you to connect field or panel wiring to the output module through a 20-point terminal block assembly that also provides surge suppression up to 2 kV. Terminations are pluggable and accept a maximum wire size of 16 AWG (American Wire Gauge). See the [Field Wiring Terminals](#) table (below) for the wiring guide.

Communications

The 4-port Serial Communications module provides up to four serial communication ports (1, 2, 3, 4), accommodating the following serial communications types:

- EIA-232 (RS-232) for point-to-point asynchronous serial communications
- EIA-422/EIA-485 (RS-422/RS-485) for half-duplex synchronous serial communications; EIA-422 for point-to-point and EIA-485 for multiple-point, both 2- and 4-wire.



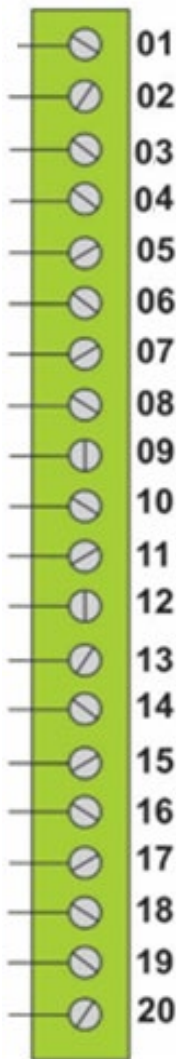
4-port Serial Communications Logic Module (3SERL4, left) and Personality Module (3SRSG4, right)

Communications Protocols

The module's communication ports support both the MVS communication protocol and the Modbus host (master) on all serial ports.

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Field Wiring Terminals on Personality Module (3SRSG4)



Port	Pin	RS-232	4-Wire RS-485	2-Wire RS-485
COM1	1	TxD1	TxD1+	TxRxD1+
	2	RTS1	TxD1-	TxRxD1-
	3	RxD1	RxD1+	No connection (N/C)
	4	CTS1	RxD1-	N/C
	5	GND1	GND1	GND1
COM2	6	TxD2	TxD2+	TxRxD2+
	7	RTS2	TxD2-	TxRxD2-
	8	RxD2	RxD2+	N/C
	9	CTS2	RxD2-	N/C
	10	GND2	GND2	GND2
COM3	11	TxD3	TxD3+	TxRxD3+
	12	RTS3	TxD3-	TxRxD3-
	13	RxD3	RxD3+	N/C
	14	CTS3	RxD3-	N/C
	15	GND3	GND3	GND3
COM4	16	TxD4	TxD4+	TxRxD4+
	17	RTS4	TxD4-	TxRxD4-
	18	RxD4	RxD4+	N/C
	19	CTS4	RxD4-	N/C
	20	GND4	GND4	GND4

Loop Supply

Loop Power Supply	Output Voltage Maximum Load	200 mA @ 24 Vdc ± 5%
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Power

Consumption	Logic module (per channel)	0.495 W average at 1 second poll
	Personality module (per channel)	0.350 W (1 Hz toggle)

Physical		
Logic Module	Dimensions	139.9 mm W x 109.5 mm H x 22.4 mm D (5.506 in W x 4.312 in H x .88 in D)
	Weight	0.17 Kg (0.37 lbs)
Personality Module	Dimensions	112.7.9 mm W x 98.4.5 mm H x 19.8 mm D (4.438 in W x 3.875 in H x .88 in D)
	Surge Suppression	20-point terminal block assemblies up to 2kV
	Wiring	Up to size 16 AWG at the removable terminal block
	Weight	0.13 Kg (0.28 lbs)
Environment		
Same as the FB3000 in which it is installed.		
Approvals		
Same as the FB3000 in which it is installed.		

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