

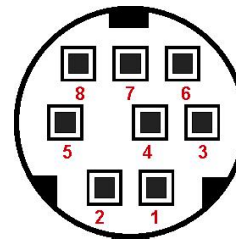
T E C H N I C A L N O T E

Doc No.: TN30-02
Date: 22 Jan 2002
Version: 1.2
Subject: Trio controller Serial Ports

The Trio Motion Coordinator Series controllers have multiple serial ports available on one or two DIN-style connectors. These serial ports are for programming and various communication options.

Connections to these serial ports will differ depending on the specific controller. The table below shows the pin connections and Port# for the MC202, MC204, Euro205, MC206 and MC216 controllers. Please refer to Chapter 2 *Hardware Overview* in the *Technical Reference Manual v6* for full detailed information.

**Mini DIN connector pin location
 (Looking into socket on controller)**



Controller Model	DIN Connections	SETCOM Logical Port #	Physical Connector	Comments
MC202	1 – 5Vdc 2 – 0Vdc 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 0	PORT A	- Main programming Port. Does NOT support Modbus. - Supports immediate ASCII commands from host.
	6 – TTL level Control Enable 7 – TTL level Transmit OUT 8 – TTL level Receive IN	PORT 1		- User port supports Modbus. Use adapter P349 RS485 output. - Supports ASCII.
MC204	1 – N/C 2 – N/C 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN 6 – N/C 7 – N/C 8 – N/C	PORT 0	PORT A	- Main programming Port. Does NOT support Modbus. - Supports immediate ASCII commands from host.
	1 – RS485 +Data IN 2 – RS485 -Data IN	PORT 2		- User port supports Modbus. - Supports ASCII.
	3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 1		- User port supports Modbus. - Supports ASCII.
	6 – 5Vdc 7 – RS485 -Data OUT 8 – RS485 +Data OUT	PORT 2		- User port supports Modbus. - Supports ASCII.

Controller Model	DIN Connections	SETCOM Logical Port #	Physical Connector	Comments
MC205	1 – 5Vdc 2 – 0Vdc 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 0	PORT A	- Main programming Port. Does NOT support Modbus. - Supports immediate ASCII commands from host.
	6 – TTL level Transmit OUT 7 – TTL level Receive IN 8 – TTL level Control Enable	PORT 2		- User port supports Modbus. Use adapter P348 for RS485 output. - Supports ASCII.
	1 – 5Vdc 2 – 0Vdc 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 1	PORT B	- User port supports Modbus. - Supports ASCII.
	6 – 5Vdc 7 – TTL level Transmit OUT 8 – TTL level Receive IN	PORT 4		- Use P435 adapter for Fiber Optic interface.
MC206 MC224	1 – 5Vdc 2 – 0Vdc 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 0	PORT A	- Main programming Port. Does NOT support Modbus. - Supports immediate ASCII commands from host.
	6 – 5Vdc 7 – TTL level Transmit OUT 8 – TTL level Receive IN	PORT 4		- Use P435 adapter for Fiber Optic interface.
	1 – RS485 +Data IN 2 – RS485 -Data IN	PORT 2	PORT B	- User port supports Modbus. - Supports ASCII.
	3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 1		- User port supports Modbus. - Supports ASCII.
	6 – 5Vdc 7 – RS485 -Data OUT 8 – RS485 +Data OUT	PORT 2		- User port supports Modbus. - Supports ASCII.
MC216	1 – 5Vdc 2 – 0Vdc 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 0	PORT A	- Main programming Port. Does NOT support Modbus. - Supports immediate ASCII commands from host.
	6 – TTL level Transmit OUT 7 – TTL level Receive IN 8 – TTL level Control Enable	PORT 2		- User port supports Modbus. Use adapter P348 for RS485 output. - Supports ASCII.
	1 – 5Vdc 2 – 0Vdc 3 – RS232 Transmit OUT 4 – Signal Common 5 – RS232 Receive IN	PORT 1	PORT B	- User port supports Modbus. - Supports ASCII.
	6 – 5Vdc 7 – TTL level Transmit OUT 8 – TTL level Receive IN	PORT 3 or 4		- User port supports Modbus. Use adapter P348 for RS485 output. Use Port 3 with DEFKEY Use Port 4 for ASCII