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**Subject:** Serial Port comparison table for MC2xx Motion Coordinators

## Application Note

### 1. Applicability:

The following table lists the serial port allocations for the MC2, MC202, MC204, MC Euro 205, MC206, MC216 and MC224.

The port number affects commands such as PRINT#, OUTDEVICE and SETCOM , and is therefore particularly important for prospective HMI users.

### 2. Details, Motion Coordinators:

Port #	MC2	MC202	MC204	MC206	MC216	MC224
0	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection
1	Skt B RS232 Open port, user programm- able	Skt A via adapter. P349 gives RS485 P435 gives F/O	Skt B RS232 Open port, user programm- able	Skt B RS232 Open port, user programm- able	Skt B RS232 Open port, user programm- able	Skt B RS232 Open port, user programm- able
2	Skt B RS485 User Programm- able Factory fitted Option	None	Skt B RS485 User Programm- able Factory fitted Option	Skt B RS485 User programm- able Fitted as Standard	Skt A RS485 via adaptor P348	Skt B RS485 User programm- able Fitted as Standard

3	F/O port Keypad Codes are affected by look up table	None	F/O port Keypad Codes are affected by look up table	Skt A F/O port via adapter P435 Keypad Codes are affected by look up table	F/O port Keypad Codes are affected by look up table	Skt A F/O port via adapter P435 Keypad Codes are affected by look up table
4	F/O port Keypad Codes read directly	None	F/O port Keypad Codes read directly	Skt A F/O port via adapter P435 Keypad Codes read directly	F/O port Keypad Codes read directly	Skt A F/O port via adapter P435 Keypad Codes read directly
5, 6, 7*	Virtual ports for Motion Perfect emulations etc.					
8,9	Reserved for Motion Perfect background work					
10	F/O Network	N/A	Fibre optic network Channels. #10 prints to the next node in the ring			
10+n n=1 to 14	F/O Network		Fibre optic network channels. #10+n prints to the next+n in the ring. Unidirectional, so to print to the previous controller in a ring of X need to PRINT#(10+X-2)			

- Note MC204s have RS485 port fitted as standard from serial number P130-00811 onwards. Prior to this number RS485 port is a factory fitted option. Chip is surface mount type MAX1482 and can be retrofitted (preferably a factory return) into position U71
- When opening a keypad emulation on 5 6 or 7 in motion perfect there is a radio button to select whether or not you want to emulate port 3 or port 4. For the MC202, which has neither, you should select port 4, to run without the look up table.

### 3. Details, Eurocards:

Port #	Euro 1	Euro205	Euro205x
0	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection	Skt A RS232 MCSetup / MP2 connection
1	Skt B RS232 Open port, user programmable	Skt B RS232 Open port, user programmable	Skt B RS232 Open port, user programmable
2	Skt B RS485 User Programmable Fitted as Standard	Skt A RS485 via optional adaptor P348	Skt B RS485 User Programmable Fitted as Standard
3	F/O port Keypad Codes are affected by look up table	Skt B F/O port via Adapter P435 Keypad Codes are affected by look up table	Skt A F/O port via adapter P435 Keypad Codes are affected by look up table
4	F/O port Keypad Codes read directly	Skt B F/O port via Adapter P435 Keypad Codes read directly	Skt A F/O port via adapter P435 Keypad Codes read directly
5, 6, 7*	Virtual ports for Motion Perfect emulations etc.		
8,9	Reserved for Motion Perfect background work		
10	Fibre optic network Channels. #10 prints to the next node in the ring		
10+n n=1 to 14	Fibre optic network channels. #10+n prints to the next+n in the ring. Unidirectional, so to print to the previous controller in a ring of X needs to PRINT#(10+X-2)		