# Motion Controller TJ1-MC16

URL:https://www.sxplc.com/motion-controller-tj1-mc16

## Product data sheet

| Item | | Details | |
|---|---|---|---|
| Model | | TJ1-MC16 | TJ1-MC04 |
| Number of axes | | 16 | 4 (+1 using TJ1-FL02 unit) |
| Number of inverters and I/O modules | | 8 maximum (Inverters in speed or torque mode) | |
| Number of MECHATROLINK-II master units | | Up to 4 MECHATROLINK-II master units (see below TJ1-ML16/ML04) can be connected | |
| Cycle time | | Selectable 0.5 ms, 1 ms or 2 ms | |
| Programming language | | BASIC-like Motion language | |
| Multi-tasking | | Up to 14 tasks running simultaneously | |
| Built-in Digital I/O | | 16 Inputs and 8 Outputs, for general purpose | |
| Measurement units | | User definable | |
| Available memory for user programs | | 500KB | |
| Data storage capacity | | Up to 2 MB flash data storage | |
| Saving program data, motion controller | | SRAM with battery backup and Flash-ROM | |
| Saving program data, personal computer | | Trajexia Motion Perfect software manages a backup on the hard disk of the personal computer. | |
| Communication ports | | 1 Ethernet port and 2 serial ports | |
| Firmware update | | Via Trajexia software tool | |
| Ethernet port | Electrical characteristics | Conform to IEEE 802.3 (100BaseT) | |
| | Connector | RJ45 Ethernet connector | |
| Serial port | Electrical characteristics | Conform 1 port to RS232C and 1 port to RS485/RS422A (selectable by switch) | |
| | Connector | SUB-D9 connector (Counterpart included in the package) | |
| | Synchronization | Start-stop synchronization (asynchronous) | |
| | Baud rate | 1200 / 2400 / 4800 / 9600 / 19200 / 38400 bps | |
| | Transmission format | Databit Length | 7 or 8 bit |
| | | Stop Bit | 1 or 2 bit |
| | | Parity Bit | Even/Odd/None |
| | Transmission mode | Point-to-multipoint (1:N) | |
| | Transmission protocol | RS-232C (1:1) | Host Link master protocol,<br>Host Link slave protocol,<br>ASCII general-purpose |
| | | RS-422A (1:N) | Host Link master protocol,<br>Host Link slave protocol,<br>ASCII general-purpose |
| | | RS-485 (1:N) | ASCII general-purpose |
| | Galvanic isolation | RS422A port | |
| | Communication buffers | 254 bytes | |
| | Flow control | None | |
| | Terminator | Yes, selectable by switch | |
| | Cable length | 15 m for RS232 and 500 meter for RS422/485 | |