

# OMRON Europe B.V.

The advanced motion controller that puts you in control

Category  
Category1 (★)

## Features

Trajexia is Omron's new motion platform that offers you the performance of a dedicated motion system, the ease of use you get from an automation specialist and the peace of mind you have from a global player.

- Each axis can run complex interpolation moves, e-cams and egearboxes
- Advanced debugging tools including trace and oscilloscope functions
- Multi-tasking controller capable of running up to 14 tasks simultaneously
- Control of servos, inverters and I/Os over a single motion network
- Open-Ethernet built-in, PROFIBUS-DP and Devicenet as options



Trajexia MC16

## Specifications

Item	Specifications
Control method	Motion control (Position, Velocity, Torque) by (1) MECHATROLINK-II (TJ1-ML16 module) & (2) Analog output or Pulse train (TJ1-FL02 module)
Number of control axis	16 servo axes + 8 inverters
Control Servo Drivers	MECHATROLINK-II ; SGDS series, SGDH series + JUSP-NS115, SJDE-***ANA
Unit (minimum control unit)	32 bit IEEE Floating Point (User defined engineering units)
Maximum command value	32 bit IEEE Floating Point (User defined engineering units)
Motion program functions	Positioning, Linear Interpolation, Circular Interpolation, Zero point search, Interruption feed, Time constant positioning, Traverse function, Electric CAM, Synchronous electric CAM, Line action, Electric gear, Following synchronization, Velocity command, Torque command
Number of MECHATROLINK-II master units	Up to 4 MECHATROLINK-II master units TJ1-ML16 can be connected
Total cycle time	Selectable 0.5 ms, 1 ms or 2 ms
Multi-tasking	Up to 14 tasks running simultaneously
Digital I/O	16 Inputs and 8 Outputs freely configurable
Measurement units	User definable
Available memory for user programs	500KB
Data storage capacity	Up to 2 MB flash data storage
Communication ports	1 Ethernet port and 2 serial ports
Firmware update	Via Trajexia software tool

## MECHATROLINK specifications

		M-I	M-II	
		17-byte	17-byte	32-byte
Command	Servo	-	-	×
	Stepping Motor Drivers	-	-	-
	Intelligent I/O	-	-	-
	Simple I/O	-	-	-
	Inverter	-	-	-
Transmission cycle				0.5ms, 1ms, 2ms

## Contact Information

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