

The **DDS7xM** series stepper motor drives allow an accurate and complete motor control through the industrial Ethernet **Modbus TCP/IP** protocol.

The communication speed reaches **100Mbit/s** and it is possible to update Position, Velocity and Torque set points with a cycle time of less than **1ms**.



Modbus TCP/IP is an open and easy to implement industrial communication protocol based on the client-server architecture. The messages are encapsulated within the standard TCP/IP telegram and can be transmitted through the common Ethernet networks.

Many PLC and HMI of the last generation natively support the Modbus TCP/IP protocol, furthermore PC-based systems can easily implement it thanks to the numerous and free libraries available.

The drive gets advantage from full digital technology and vector control technique to minimize motor vibrations and noise. It can be easily integrated in the modern industrial 4.0 applications also for its compact size and quick installation on DIN rail.

Family development

Power Supply / Motor Current	5 Digital Inputs, 2 Digital Outputs 1 Analog Input	8 Digital Inputs, 3 Digital Outputs 1 Analog Input 1 Encoder Input A, B, I 1 Absolute Encoder Input SSI
24Vdc Auxiliary Power Supply		
20..50Vdc (16..36Vac) / 0.2..1.4Arms	DDS71M41(A)	DDS72M41(A)
20..50Vdc (16..36Vac) / 1.0..4.5Arms	DDS71M44(A)	DDS72M44(A)
20..50Vdc (16..36Vac) / 2.0..10.0Arms	DDS71M48(A)	DDS72M48(A)
24..90Vdc (20..65Vac) / 1.0..4.5Arms	DDS71M74(A)	DDS72M74(A)
24..90Vdc (20..65Vac) / 2.0..10.0Arms	DDS71M78(A)	DDS72M78(A)

The A suffix (for ex. DDS72M78A) identifies the AC versions

The I/O equipment is complete and includes both digital and analog inputs and outputs. There are also available models with Encoder input able to control the motor in closed-loop, removing the step losses' problems and improving the motor efficiency. The drive has a separate power supply for the logic and is protected against over or under-voltage, over-temperature, short-circuits, etc.

The drive setting and diagnostics are possible with the use of the free **Omni Automation IDE** software.

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