

MR-J5 MULTI-NETWORK SERVO AMPLIFIER (MR-J5-N1)

PRODUCT OVERVIEW



- Dual-protocol support
- Reduce panel space
- Built-in safety
- Fast setup

Enhance Ethernet/IP™ and EtherCAT® Servo Systems

Mitsubishi Electric's MR-J5-N1 Multi-Network Servo Amplifier offers seamless native compatibility with both EtherNet/IP and EtherCAT networks, eliminating the need for additional hardware or configuration. Designed for flexibility, it supports multi-axis control to reduce panel space and simplify wiring. With built-in functional safety features like FSoE and CIP Safety (coming soon), it ensures operator protection and system reliability. Pre-configured AOIs streamline integration with Rockwell Automation® controllers, while predictive maintenance and Quick Tuning™ enhance uptime and performance. Whether upgrading legacy systems or designing new ones, MR-J5-N1 delivers high performance, ease of use, and total cost of ownership advantages.

KEY BENEFITS:

- **Dual-network compatibility:** Supports EtherNet/IP and EtherCAT, enabling integration with Rockwell Automation controllers and EtherCAT Masters using CiA 402 profiles.
- **Functional safety:** FSoE (Fail Safe over EtherCAT) and advanced safety monitoring functions (STO, SS1, SOS, SLS, etc.) certified to Category 4, Ple, and SIL 3 through network or wired. CIP Safety (coming soon).
- **Fast setup & programming:** Pre-tested Add-On Instructions (AOIs) for Studio 5000 Logix Designer® simplify programming and reduce commissioning time.
- **Space & cost efficiency:** Multi-axis amplifiers reduce panel space, simplify wiring, and lower total cost of ownership.
- **High-performance motors:** Equipped with 26-bit battery-less absolute encoders and optimized for precision, speed, and reliability.

MR-J5 Multi-network Diagram

Compatible with EtherNet/IP controllers (Mitsubishi Electric, Rockwell, OMRON, Keyence) and EtherCAT masters using CiA 402 profiles.



More Information

For more information about MR-J5's compatibility with EtherCAT Masters, please visit our website below.

[EtherCAT information](#)



For more information about how MR-J5 servo motors and drives enhance existing EtherNet/IP servo systems, visit our website below.

[EtherNet/IP information](#)



For more information about MR-J5 products, please visit our website below.

[MELSERVO-J5 information](#)



MR-J5 Multi-network Amplifier Specifications

Model Number	Product Description	Power Supply Voltage	Rated Output
MR-J5-G-RJN1	MR-J5 Servo Amplifier EtherCAT EtherNet/IP compatible Digital I/O Safety	200V	100W–7kW
MR-J5-G4-RJN1 MR-J5W2-G-N1	MR-J5 Servo Amplifier EtherCAT EtherNet/IP compatible Digital I/O Safety	400V	600W–3.5kW
MR-J5W3-G-N1	MR-J5 Servo Amplifier 2/3 Axes EtherCAT EtherNet/IP compatible Digital I/O Safety	200V	200W–1kW
MR-J5-G4-HSN1	MR-J5 Servo Amplifier EtherCAT EtherNet/IP compatible Digital I/O Safety Additional Safety I/O	400V	600W–7kW
MR-J5D1-G-N1 MR-J5D2-G-N1 MR-J5D3-G-N1	MR-J5 Servo Amplifier Common DC Bus 1/2/3 Axes EtherCAT EtherNet/IP compatible Digital I/O Safety	400V	1kW–7kW

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