

CLPA announces CC-Link IE Field Safety features embedded into Mitsubishi Electric Automation MR-J4-GF Servo Amplifiers

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The CC-Link Partner Association (CLPA), comprising an alliance of companies around the world working to promote the CC-Link IE and CC-Link technologies, announces that Mitsubishi Electronic Automation, a premier supplier of motion control products, is opening up new market opportunities by embedding CC-Link IE Field Safety features into their MR-J4-GF Servo Amplifiers. CC-Link IE Field Safety meets both IEC and ISO safety standards.

The 1-Gbit per second (Gbps) data transfer rate provides the necessary speed and capacity required for Industry 4.0 requirements. This additional bandwidth capacity over the current standards used for motion

communication can allow for both necessary safety control, as well as for any future diagnostic communications and other non-real time transmissions; thus meeting future Industry 4.0 & IIoT requirements.

With the CC-Link IE Field Safety integration and the additional option card MR-D30 attached, the MR-J4-GF now meets international safety standards for Category 4 PLe SIL3. The integration also makes the system configuration much simpler and cleaner by reducing wiring. OEMs can save time and money with this easier configuration because they only need to connect the Mitsubishi Electric Simple Motion Module with the servo amplifier to establish safety communications over the network.

“The safety signal from the safety PLC can be transmitted directly to MR-J4-GF via CC-Link IE Field. This feature is especially beneficial for OEMs and end users in automotive, packaging, welding and material handling applications, as well as any industries with safety requirements,” said Elaine Wang, senior product marketing engineer, Mitsubishi Electric Automation, Inc. “End users can easily access the safety information or functions through Mitsubishi Electric’s graphic operation terminal.”

Beyond its newly integrated CC-Link IE Field Safety features, other key features of the MR-J4-GF Servo Amplifiers include:

- One-Touch Tuning™ – Fast, trouble-free servo tuning that really works. Offers optimum performance with no tuning experience necessary.
- Superior motion performance – Advanced Vibration Suppression Control II™, One-Touch Tuning™, 4 million pulse encoders, and 2.5 kHz speed frequency response reduces settling time and minimizes overshoot.
- Failure prediction function – Detects age-related changes in machine performance based on the friction and vibrations monitored by a machine diagnosis function.

Information about the MR-J4-GF Servo Amplifiers and their integration with CC-Link IE Field Safety features is available at

<https://us.mitsubishielectric.com/fa/en/products/drive-products/ac-servos-melservo/melservo-j4/servo-amplifier/mrj4gfrjrd77gf>.

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■ **CC-Link Partner Association**

Founded in 2000, the CC-Link Partner Association (CLPA) is an international open network organization dedicated to the technical development and promotion of the CC-Link family of open automation networks. The CLPA's key technology is CC-Link IE, the world's first and only open gigabit Ethernet for automation and an ideal solution for Industry 4.0 applications due to its unmatched bandwidth. Its main activities include the development of CC-Link IE and CC-Link technical specifications, conducting of conformance tests, development support, and promotion of the CC-Link technologies. The CLPA boasts more than 3,000 members. CC-Link is the leading open industrial automation network technology in Asia and is becoming increasingly popular in the Americas and Europe.

■ Captions

Image 1: The Mitsubishi Electric Automation MR-J4-GF Servo Amplifiers can now support CC-Link IE Safety network connectivity, leading to safe, simplified and cost-effective system designs.

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