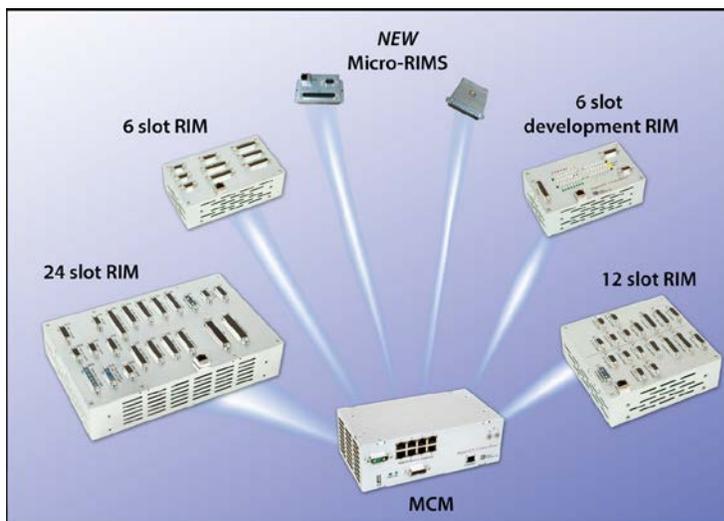


## Digital Dynamics' **SuperIO<sup>®</sup>** Controller System receives SIL 3 Certification from TÜV Rheinland



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SCOTTS VALLEY, CA, July 1, 2017-Digital Dynamics, Inc. (DDI) today announced that **SuperIO<sup>®</sup> Controller** has been certified to IEC 61508 and ISO 13849-1, Safety Integrity Level 3 (SIL 3).

This certification provides independent validation that the **SuperIO<sup>®</sup> Controller** offers a very high level of reliability and risk reduction when used in safety-critical systems. Examples of such systems are semiconductor processing equipment, material processing, hazardous equipment, or any type of automated industrial equipment.

The certificate states that the **SuperIO<sup>®</sup> Controller** has been “*Certified to comply with the requirements of the relevant standards (Cat. 3 /PL e acc. to EN ISO 13849-1, SIL CL 3 acc. To EN 62061 / IEC 61508) and can be used in applications up to PL e acc. to EN ISO 13849-1 and SIL 3 acc. to EN 62061 / IEC 61508.*”

To achieve this certification, the **SuperIO<sup>®</sup> Controller** system was subjected to a detailed reliability analysis by specialists at TÜV Rheinland, a global leader in independent inspection

services and provider of technical services. The analysis demonstrated that the product design met the stringent SIL 3 requirements.

“We are in a business where product safety is of prime importance,” said Daryl A. Gault, CEO of Digital Dynamics, Inc. “The SIL3 rating for the **SuperIO Controller** system validates DDI’s total commitment to safety and quality.”

DDI’s industry leading Input/Output (I/O) platform, the patented **SuperIO Controller** system is composed of an Master Control Module (MCM) connected to a network of Remote Interface Modules (RIMs), allowing distributed I/O control throughout large complex equipment. The MCM can operate under the control of a customer supplied supervisory host computer, or autonomously as the system computer for the entire machine.

The **SuperIO Controller** system off-loads much of the high speed control and monitoring load from a supervisory host, and simultaneously manages several thousand mixed-signal inputs and outputs at an 8 kHz scan rate. The system can handle high-speed sequence automation and data monitoring while ensuring system safety integrity through its redundant hardware interlocks.

As many as 16 configurable RIMs in various sizes can be distributed throughout a tool. Each RIM is connected to the MCM with a single CAT6 cable and can be positioned as far as 250 cable feet away. The use of distributed RIMs drastically reduces the complexity of cabling needed to connect to sensors and actuators situated throughout a tool.

Interlocks are electronically configured in dual redundant configuration FPGAs, providing the ultimate in safety interlock integrity. Any number of I/O points in any combination of RIMs can be interlocked. Interlocks can be easily re-configured, substantially reducing hardware design spins traditionally needed to accommodate process changes.

Digital Dynamics, Inc. manufactures and distributes high quality I/O Controllers and related products in Scotts Valley, California. DDI is an ISO 9000 registered company with over 40 years of design and manufacturing experience, and a worldwide installed base of more than 50,000 advanced electronic control systems.

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