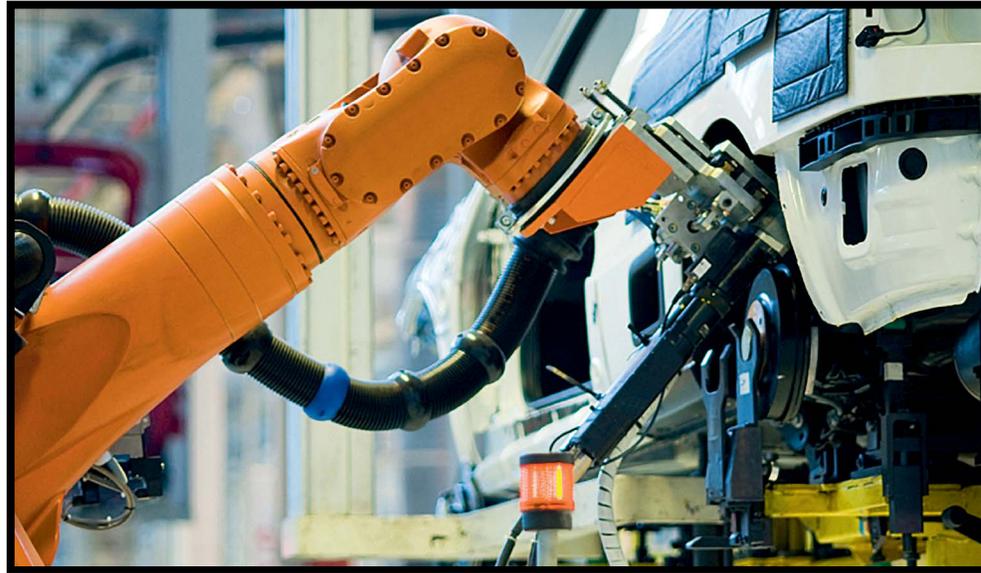


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**LioN-R EtherNet/IP Quick Connect**

The Quick Connect technology contributes to faster overall production cycles for industrial applications in which robots play a critical role in the automation process.



**In addition to reducing production cycle time, Belden's LioN-R EtherNet/IP Quick Connect feature adds flexibility and reduced machinery adjustments, while driving higher overall levels of automation in the automotive market, and for machine building and packaging areas.**

The EtherNet/IP modules in the Lumberg Automation™ Input/Output Network-Ruggedized (LioN-R) series act as an interface between field and control levels. They can be used wherever inputs and outputs need to be networked securely with programmable logic controllers (PLCs) and other control units – even under harsh environmental conditions.

The LioN-R Ethernet/IP's new **Quick Connect** feature ensures that the modules can quickly and efficiently power up and join an EtherNet/IP network, especially after a tool exchange on a robot is performed.

At a glance, the Quick Connect technology allows:

- Faster production cycles
- Quicker automatic tool changes
- More flexibility in production processes

Often times, powering up for operation can take machines five to eight seconds. Now, with the Quick Connect technology, a robot can return to work after a tool change in less than 500 milliseconds. This time savings greatly reduces the overall production process.

**Applications**

Quick Connect specifically helps industrial applications reduce the time it takes for the automatic tool changers (ATCs) found on

modern robots to exchange tools and switch out the task the robot performs.

This minimized ATC changeover time is especially ideal for industrial markets, including automotive manufacturers or logistics companies, such as warehouses. If one robot can be adjusted to serve multiple purposes on the automation line, companies will need fewer robots, have reduced maintenance requirements, and experience less downtime in the production cycle.

For example, an automotive manufacturer could produce more cars overall, and more varying types of cars, on the same production line with the speed and efficiency the Quick Connect feature brings to robotic automation.

**Features**

The LioN-R EtherNet/IP module has several other features, including:

- IP67 degree of protection
- M12 connection for the network
- Integrated dual-port switch to facilitate line and ring topologies
- Three modules that provide maximum flexibility
- "Fail safe" function
- Temperature range of -10°C to +60°C

**A new product to serve your needs. Be certain.**



## Your Benefits

The Quick Connect feature will simplify and standardize the production process in industrial settings that rely on robots for their automation, such as manufacturing or assembly lines.

The LioN-R Ethernet/IP module is quick and easy to install, and with the added Quick Connect feature, companies can immediately experience:

- Accelerated start-up time of machinery
- Shorted overall production cycles
- Faster switchover of robot tools with ATC
- Reduction of machine downtime due to ATC
- Elimination of manual adjustments to robots
- Increased flexibility within production lines
- Higher output due to faster production cycles
- Fewer robots required, which reduces space and cost

As in any industrial environment, downtime is costly. The Quick Connect feature aims to boost the quantity and speed of a company's production cycle through maximum machine uptime and simplified processes.



**Without Quick Connect:**  
Module available after  
**12 sec**



**With Quick Connect:**  
Module available after  
**389 ms**



## LioN-R Ethernet/IP Module

The Quick Connect feature is part of Belden's LioN-R modules, including those that support EtherNet/IP. For information about this latest technology, please visit our website at [www.lumberg-automationusa.com](http://www.lumberg-automationusa.com) or call 1-800-BELDEN1.