

Ethernet to Belden® 9463 Blue Hose® Industrial Media Converters FAQ

Why did we create the new Industrial Media Converter products?

Components for legacy Remote I/O systems are becoming obsolete. Customers need to upgrade legacy systems, and new control systems use Ethernet communications. This means running a new Ethernet network with switches and possibly fiber cable. Also, a significant amount of scheduled downtime is required to rip and replace the entire Remote I/O system. ProSoft Technology's Industrial Media Converters were developed to provide users with the ability to run EtherNet/IP™ and Remote I/O data simultaneously over existing Belden® 9463 Blue Hose® media. With our converters, you don't have to run a new Ethernet network. Users can now upgrade their legacy Remote I/O control systems in phases, minimizing scheduled downtime.

How can you send Ethernet over the Belden 9463 cable?

It transmits Ethernet over a broadband channel while transmitting Remote I/O over the baseband, before separating them at each device. The converters sample several broadband channels and select the one with the best Ethernet speed for your installed cable.

How do these new Industrial Media Converters allow a phased migration?

With the ability to run Remote I/O and Ethernet at the same time, the new ControlLogix system can take over control of the existing Remote I/O system using a Rockwell 1756-ABRIO module. With an EtherNet/IP module in the ControlLogix rack connected to the converters, new EtherNet/IP devices can be deployed in each remote I/O location. This allows you to upgrade legacy I/O and devices one node at a time.

What does it take to deploy this solution?

Install them in your cabinets, wire the power, Blue Hose and Ethernet cables you're done. The Industrial Media Converters are Plug & Play. No configuration is required.

What Ethernet data speed can I get with this system?

Up to 30 Mbps.

What's the Blue Hose trunk distance the Converters support?

Maximum distance up to 2000 cable feet. Repeaters can be used to extend these distances up to 10,000 feet.

How many Remote I/O devices can I connect to a Slave?

You can have up to 8 Remote I/O devices and up to 3 Ethernet devices using the built in switch. If you use an external Ethernet switch, there is no limit but should be based on bandwidth needs.

How long can a RIO drop cable be run from a Slave?

Up to 5000 cable feet.

Can I use other devices that use other protocols through this system?

Yes, any protocol that uses standard Ethernet can be used.

Does it support 230k baud?

No. It supports only 57.6k and 115.2k baud rates.

How are these converters powered?

The converters are powered by 120 VAC.

Need help with your specific application?

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