

PRESS RELEASE

September 15, 2025 – Mississauga, ON, Canada

Axiomatic Releases Two Gigabit Automotive Ethernet to Gigabit Ethernet Converters Suitable for On-Highway and Off-Highway Applications.

The Axiomatic [AX141560](#) and [AX141560A](#) Gigabit Automotive Ethernet to Gigabit Ethernet Converters provide a purely physical, bi-directional conversion between Automotive Ethernet (1000BASE-T1) and Ethernet (1000BASE-T) via PHY transceivers. Baud rates of 100 Mbit/s and 1 Gbit/s (1000 Mbit/s) are supported and can be set through the RS-232 interface.

The table below provides an explanation of key differences between [AX141560](#) and [AX141560A](#).

P/N	M12 Connector Type			
	Ethernet	Automotive Ethernet	RS-232	Power
AX141560	8-pin, female, X-coded	8-pin, female, X-coded	5-pin, female, A-coded	
AX141560A	8-pin, female, X-coded	8-pin, female, A-coded		4-pin, male, D-coded

These converters operate with a power supply input of 9 V to 36 V and are protected against surge, reverse polarity, over-voltage, and under-voltage faults. The units operate at temperatures between -40 to 85 °C (-40 to 185 °F) and feature an IP67-rated, laser welded, and injection molded enclosure and cover.



[AX141560 — Gigabit Automotive Ethernet/Gigabit Ethernet Converter](#)



[AX141560A — Gigabit Automotive Ethernet/Gigabit Ethernet Converter, Dedicated Power Connector](#)

The Automotive Ethernet to Ethernet Converters are configured via the RS-232 port to act as a Master or Slave for Automotive Ethernet. The Master mode works if the connected device has its transceiver set to slave mode. The Slave mode works when the connected device has its transceiver set to master mode. Hard setting the Master/Slave relationship saves on setup-time costs and ensures that the Automotive Ethernet link is established quickly. Automotive Ethernet networks use a 2-wire, twisted pair cable. As a comparison, regular Ethernet converters rely on auto-negotiation to determine Master and Slave.

For more details, please visit the webpages of [AX141560](#) and [AX141560A](#).

[AX141560](#) and [AX141560A](#) are the newest releases as Axiomatic expands its Automotive Ethernet to Ethernet Converter line-up.

- [AX141500-M](#), Basic Automotive Ethernet/Ethernet Converter
- [AX141510](#), 3x Gigabit Automotive Ethernet / 1x Gigabit Ethernet Switch
- [AX141520](#), High Speed Automotive Ethernet/Ethernet Converter
- [AX141550](#), Gigabit Automotive Ethernet/Gigabit Ethernet Converter, A-Coded Connectors
- [AX141590](#), 4x Gigabit Automotive Ethernet / 1x 10 Gigabit Ethernet Switch

You can browse through our catalog of [Automotive Ethernet to Ethernet Converters](#) and other [Connectivity Solutions](#).

Axiomatic specializes in the design, development, and production of control solutions tailored for diverse applications where performance and reliability are of utmost importance. Our team of design engineers designs products and components in both Canada and Finland, while our manufacturing operations are located in Canada. A US location is underway.

Contact: M Ejaz, Product Manager
TEL: +1 905 602 9270 x221
m.ejaz@axiomatic.com