

PRESS RELEASE

September 25th, 2026 – Mississauga, ON, Canada

Axiomatic releases a Gigabit Automotive Ethernet/Gigabit Ethernet PoE Converter, designed for mining and off-highway machines.

The Axiomatic [AX141410](#) is a new 1000BASE-T1 to 1000BASE-T protocol converter featuring Power-over-Ethernet (PoE). The Gigabit Automotive Ethernet to PoE Converter is designed for the harsh environments of off-highway and mining equipment. It interfaces with cameras and network switches for machine autonomy.



[AX141410 — Gigabit Automotive Ethernet/Gigabit Ethernet PoE Converter](#)

PoE follows IEEE 802.3af Type 1 Class 3 Mode B and provides 15.4 W at the port. Users can set the speed/bitrates of the end-to-end communication via the RS-232 interface using the 3-wire RS-232/Power port. Additionally, [AX141410](#) can be configured to act as Master or Slave for Automotive Ethernet via the RS-232 interface. Master mode works if the connected device has its transceiver set to Slave mode. Slave mode works when the connected device has its transceiver set to Master mode. Hard setting the Master/Slave relationship is available and saves on setup-time costs and ensures that the Automotive Ethernet link is established quickly. Automotive Ethernet networks use a 2-wire cable to reduce cable weight and cost in automotive networking.

The Automotive Ethernet/Ethernet PoE media converter operates with a nominal power supply input of 12 or 24 VDC nominal (9 to 36 VDC range) and is protected against surge and transient, reverse polarity, over-voltage, and under-voltage faults. The unit operates at temperatures between -40 to 70 °C (-40 to 158 °F) and features an IP67-rated, laser welded, injection molded enclosure with three rugged M12 connectors.

For more details, please visit the [AX141410](#) webpage.

The Gigabit Automotive Ethernet/Gigabit Ethernet PoE Bridge, [AX141410](#), is part of an evolving family of products developed for Axiomatic Technologies' connectivity solutions line-up, [Automotive Ethernet to Ethernet PoE Converters](#).

For similar devices, you can browse through our catalog of [Automotive Ethernet to Ethernet Converters](#), [Ethernet Switches with PoE](#), and other Axiomatic [Connectivity Solutions](#).



Axiomatic Technologies Corporation (axiomatic.com) began the design and manufacturing of rugged electronic controls and power converters in 1991 for mining, construction, agriculture, forestry, municipal, utility, lift, material handling, autonomous vehicle, on-highway truck and bus, rail, power generator, and marine engine equipment manufacturers (OEM). Product lines include: SAE J1939, CANopen®, CAN-FD, LIN, Modbus, RS-232, RS-422, RS-485, and BLE converters; CAN routers and repeaters; CAN I/O controllers and valve drivers; Ethernet I/O; Ethernet, PoE and Automotive Ethernet switches and converters; GMSL converters; H-bridge controllers; BLDC controls; FOC drivers; RTD, PTC, and TC scanners; DC-DC converters; Power supplies; Inclinometers; and Laser receivers.

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