





Working for you worldwide

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Help us understand your controls challenge. We innovate with engineered and off-the shelf products. www.axiomatic.com

Our products are designed to be customized by our customers and can be thought of as product foundations. Find the foundational product(s) that you need in our catalog, add them to your quote cart, then explain your requirements for your project on the quote cart submission form. If you cannot find the **foundational product**, please <u>tell us your requirements</u>.

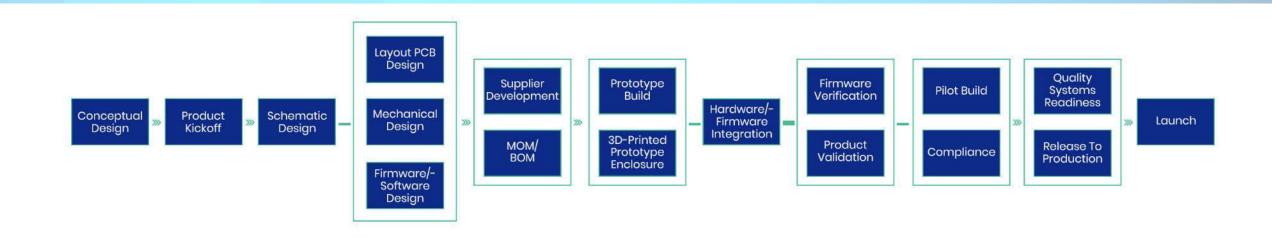


Collaboration





Innovation in Controls Design



Agile and rigorous New Product Introduction



SOLVE – using off-the-shelf or custom control solutions

Design
Collaboration

New design to meet your needs (hardware and firmware) (sales@axiomatic.com)

Firmware or Setpoints from Factory

Firmware adaptation or setpoint files for specific applications (sales@axiomatic.com)

Technical Support for Prototype

Technical support for prototype bench tests (support@axiomatic.com)

Field Support

Troubleshooting for field issues (support@axiomatic.com)

Returned Goods

Return materials process (RMA) (rma@axiomatic.com)





Testing for Harsh Field Conditions



















IP67



Materials Compliance











Fieldbus Networking

Many Axiomatic controls feature CAN bus networking:

- SAE J1939 (250 kbps, 500 kbps, 667 kbps, 1 Mbps)
 - Auto-Baud-Rate detection
- High speed CAN ISO 11998-2
- CANopen
- MilCAN

Other fieldbus protocols include:

- Automotive Ethernet (100 Mb), Gigabit AE (1000 Mb)
- Ethernet (10/100 Mb), Gigabit Ethernet (1000 Mb), 10 GBe (10Gb)
- LIN
- Modbus RTU, Modbus TCP/IP
- RS-485, RS-422, RS-232
- J2497, J1587

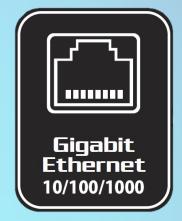
We also interface with Classic Bluetooth and BLE.







1odbus











Quality Manufacturing



ISO 9001 Certified

Quality Management



Axiomatic Manufacturing Facility





Automation Solutions



Analog, Digital, & Enhanced I/O (for Signal Conditioning, Measuring, Converting, Controlling of Outputs, and Datalogging)



Automation Solutions

Controls for Engine Management + Data Acquisition





ElectroHydraulic Solutions



Hydraulic Valve Drivers + Controllers



Connectivity Solutions



Vehicle & Engine Protocol Converters, Gateways, Switches, Routers

(Automotive Ethernet, Gigabit Ethernet, Ethernet TCP/IP, Modbus, RS-485/422/232, CAN, LIN, WiFi, Bluetooth)



Machine Control Solutions



Machine Control Systems, Inclinometers, Gyroscopes + Laser Receiver + Level Sensor



Power Management Electronic Solutions



AC/DC, DC/DC Converters, Power Supplies + Battery Chargers + Surge Protectors



H-Bridge, BLDC Motor Control Solutions



DC, BLDC, PMSM & Stepper Motor Drives + Actuators



The Way to Autonomous Machines



Gigabit Automotive Ethernet to **Gigabit Ethernet Converter**



AX140700:

6 Port Ethernet Switch

AX140705:

6 Port Gigabit Ethernet Switch



AX140720:

4 Port Gigabit Ethernet Switch

Our controls interface with advanced sensors and devices to add autonomous features to vehicles.

Connecting Sub-Systems







AX140900, AX140900RST, AX140905:

CAN to Ethernet Converters

AX141530:
CAN to Automotive Ethernet
Converter

AX141550:
Gigabit Automotive Ethernet to
Gigabit Ethernet Converter

Run Axiomatic controls in any weather for safe performance over many years.



Digital Construction Site



AX141600: CAN Isolator/Router



AX141200: CAN/WiFi Module



AX141150, AX141155, AX141156: CAN to Bluetooth BLE Converter with iOS and Android CAN2BLE Configuration Apps

 BT SIG, CE, RCM, UKCA, FCC, Giteki marking

Utilize remote data analytics on-site.



Valve Controls: 6, 7 or 8 Inputs with 5 Outputs & SAE J1939



AX020510: 6 Inputs, 5 Outputs, CAN, +5V



AX020530: 7 Inputs, 5 Outputs, CAN, +5V



AX021910: 8 Inputs, 5 Outputs, CAN, +5V



Valve Control – CAN Inputs





Multiple I/O

- 12 Inputs
- 12 Valve Driver Outputs
- 12V, 24Vdc
- IP67 or DIN rail mount
- 1-2 CAN bus ports



AX028010 12I/12O DIN rail mount



12I/12O Rugged AX020420 (SAE J1939) and AX020421 (CANopen®)



Functional Safety





AX103000:

3 Universal Inputs, 2 Outputs Motor Controller, H-Bridge

AX022950:

7 Digital In, 6 Digital & 4 LED Outputs Controller

Designed for SIL2 compliance.



The Way to Zero Emissions - Electrification



AX032000:

Monitor Battery Cells



AX090690:

Lithium-ion Battery Charger

Manage battery performance.



48VDC Input Power Converters

New model: AX081220

	Output Power (W)	Output Current (A)	Output Voltage (V)	Input Voltage (V)	Isolation	Enable
AX082410	18	0.75	24	48	Yes	No
AX090670	54	2	12/ 24	48	No	No
AX082400	180	15	13.8	48	No	No
AX081550	240	20	12	48	Yes	No
AX083204	240	10	24	24/ 36/ 48	Yes	Yes
AX081520	312	13	24	48	Yes	No
AX081801	330	13	26	48	No	No
AX080300	350	15	24	24/ 36/ 48	Yes	Yes
AX081220	600	25	24	48	Yes	No
AX081860	720	30	24	48	No	No



95-260 VAC to 48Vdc or 24Vdc Power Supply

- AX080710, AX080720
- Wide ranging input from 95 to 260 VAC, 45/65 Hz
- 24V / 15A or 12V / 30A output
- Isolation of 3.75kVAC
- Designed for mounting in a vehicle
- Managed heat dissipation so no fan cooling is required
- Highly efficiency design (90% for 24V model)
- Inherent power factor correction





The Way to Zero Emissions - Connectivity



AX141560A:
Automotive Ethernet
Converter, Master



AX141620:

CAN Isolator/Router



AX141810A:
Modbus/CAN Converter

Optimize vehicle network buses while saving on cabling.



Gigabit Ethernet to 10Gb Ethernet Switch

- AX140740
- 1x 10 Gigabit Ethernet port (10/100 Mbps, 1/10 Gbps)
- 4x Gigabit Ethernet ports (10/100 Mbps, 1 Gbps)
- Power port
- LED indicators
- IP67





CAN FD to Ethernet Converter

- AX140970
- 2 CAN FD or Classic CAN ports
- Ethernet
- Cybersecure models available





The Way to Zero Emissions – Performance Optimization





The Way to Zero Emissions - Efficiency



AX105000:

150A DC Motor Drive

Maximize efficiency, noise reduction, and power density.



AX180800:

20 TC, 2 RTD, 4 Signal Inputs, 6 Relay Outputs Controller Improve vehicle performance, functionality and cost. 33



The Way to Zero Emissions - Efficiency



AX100280:

10-16A BLDC Motor Drive, 48Vdc input, 125°C Maximize efficiency, noise reduction, and power density.



AX100250:

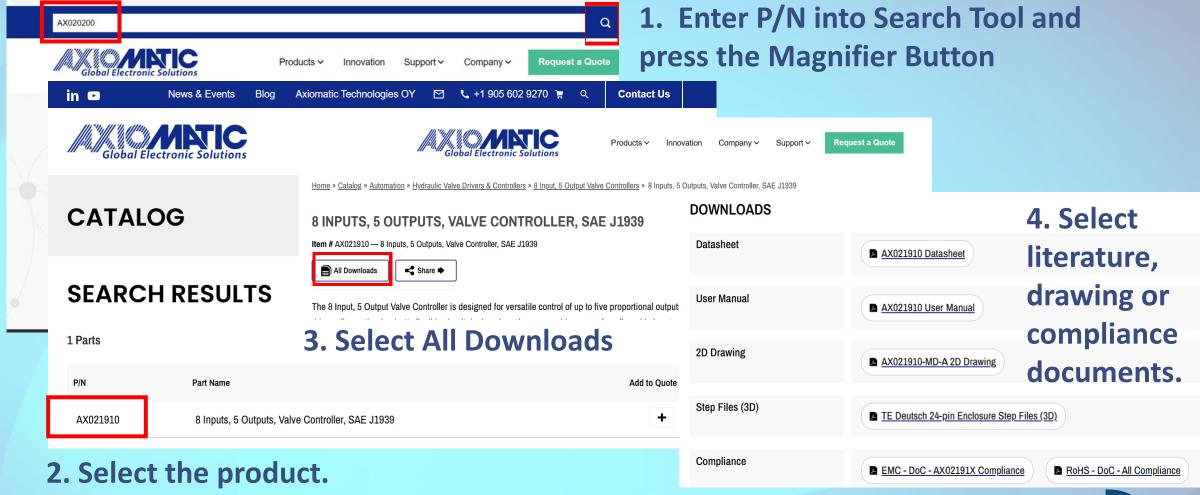
40A BLDC Motor Controller, 48Vdc input, SAE J1939

Improve vehicle performance, functionality
and cost.

34

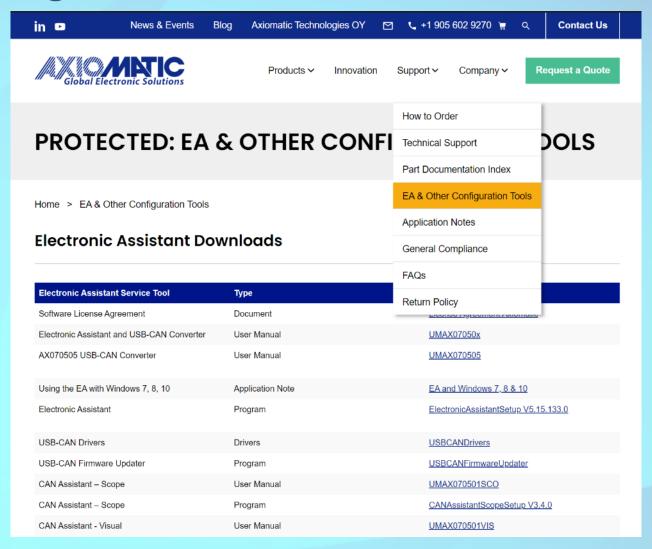


Part Documentation Search in 4 Steps





EA & Other Configuration Tools





Solve your control challenges by emailing Axiomatic.



Technical Questions:

support@axiomatic.com



Sales Questions:

sales@axiomatic.com