Features:
- Data exchange between a LIN network and a CAN network (SAE J1939)
- 1 CAN port (SAE J1939)
- 1 LIN single pin port (LIN 2.2)
- Operational from 9 to 32 Vdc (12 Vdc or 24 Vdc nominal)
- Integrated Deutsch IPD 6-pin connector
- Fully sealed enclosure with a rugged IP67 protection rating
- Meets the surge requirements of SAE J1445
- Designed for EMC compliance
- Compact size
- User configurable using Axiomatic Electronic Assistant®

Applications:
- Mobile (Off-Highway) Equipment
- Agricultural Equipment

Ordering Part Numbers:
- Protocol Converter, 1 LIN, 1 SAE J1939, 250 kbps baud rate - P/N: AX140600
- Protocol Converter, 1 LIN, 1 SAE J1939, 500 kbps baud rate - P/N: AX140600-01
- Protocol Converter, 1 LIN, 1 SAE J1939, Extended - P/N: AX140600-03

Configuration Tool: Electronic Assistant® P/N: AX070502

Accessories:
- Mating Plug KIT: AX070119

BLOCK DIAGRAM

Figure 1.0 – Block Diagram
CONTROL LOGIC

Each function block is absolutely independent and has its own set of configuration parameters, aka setpoints. The configuration parameters can be viewed and changed through CAN bus using Axiomatic Electronic Assistant® (EA) software.

Figure 2.0 – Control Logic
Technical Specifications:
Typical at nominal input voltage and 25 degrees C unless otherwise specified

Power
<table>
<thead>
<tr>
<th>Power Supply Input - Nominal</th>
<th>12 V or 24 Vdc nominal; 9…32 Vdc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge Protection</td>
<td>Meets the surge requirements of SAE J1445</td>
</tr>
<tr>
<td>Reverse Polarity Protection</td>
<td>Provided</td>
</tr>
</tbody>
</table>

Control Software

Control Logic

Configurable with Electronic Assistant® AX070502
Refer to the User Manual and Figure 2.0.

The model AX140600-03 provides extended LIN unconditional frames.
It can handle the following:
- 25 CAN input signals
- 25 CAN output signals
- 75 LIN signals
- 25 LIN unconditional Frames

General Specifications

Memory

STM32F205
32-bit, 512 Kbytes Flash Program Memory

LIN Port

1 LIN (LIN 2.2)

CAN Port

1 CAN (SAE J1939, 250 kBit/s)
Models: AX140600 – 250 kbit/s baud rate
AX140600-01 – 500 kbit/s baud rate

Power Supply Current

40 mA@ 12Vdc

Operating Conditions

-40 to 85°C (-40 to 185°F)

Weight

0.15 lb. (0.068 kg)

Protection Rating

IP67

Vibration

Random Vibration: 7.68 Grms peak
Sinusoidal Component: 10 g peak
Based on MIL-STD-202G, Methods 204G and 214A

Shock

50 g half sine pulse, 9ms per axis
Based on MIL-STD-202G, Method 213B, Test Condition A

Packaging and Dimensions

Plastic Enclosure, Nylon 6-6 with 30% glass fill
Integral Deutsch IPD connector
Refer to dimensional drawing (Figure 3.0).

Electrical Connections

6 pin Deutsch IPD connector P/N: DT04-6P
A mating plug kit is available as Axiomatic P/N: AX070119.

<table>
<thead>
<tr>
<th>CAN and I/O Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin #</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Software Re Flashing

Electronic Assistant® AX070502

User Interface

For SAE J1939 models, parameters are configurable using the Electronic Assistant®.

Axiomatic Electronic Assistant® P/N: AX070502
The Electronic Assistant® for Windows operating systems comes with a royalty-free license for use on multiple computers. It requires an Axiomatic USB-CAN converter to link the device’s CAN port to a Windows-based PC.
Figure 3.0 – Dimensional Drawing for all models

Notes:
Electronic Assistant® is a registered US trademark of Axiomatic Technologies Corporation.

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on www.axiomatic.com/service.html.

Form: TDAX140600-04/28/17