

XIO2 Hourglass I/O Module



MFG# G11103-1XX (See Part Number Matrix on Page 3)

The XIO2 Hourglass I/O Module is a printed CAN-bus circuit board I/O module applications that require multiple analog and digital inputs, as well as digital outputs.

The module is designed to be a node on a CANbus, operating at 250 kbps with a 29-bit extended identifier. As such, CAN the communicates via J1939 and can communicate via RS-485. Quadrature Inputs are available for Encoder control

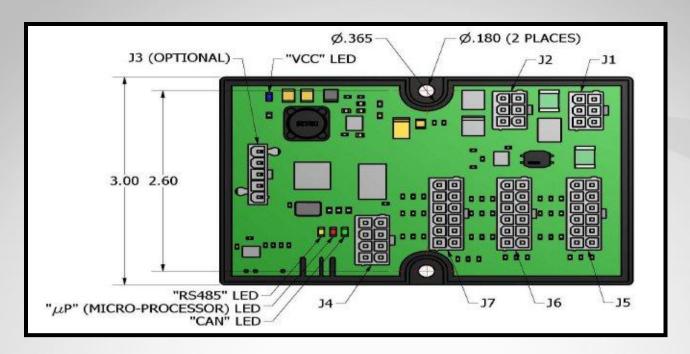
In addition, this module can be used to accept inputs from existing operator controls (joysticks, switches, speed potentiometers) and encode them for messaging over the CAN-bus. This allows for the use of familiar controls in a CAN environment.

The in cab version of the XIO2 Module is installed in a potted enclosure. The design utilizes cost effective Molex connections to allow for extreme flexibility of the harness solution requirements.

SPECIFICATIONS	
OPERATING TEMPERATURE	-40°C to +80°C
STORAGE TEMPERATURE	-40°C to +80°C
PGN NUMBERS	PGN'S are assigned at time of customers build.
ENVIRONMENTAL RATING	Model Dependent
VIBRATION	10 to 2000 Hz per axis, 69m/s² Based on MIL-STD-202G
ЕМІ	ISO11452-2
RADIATED	ISO13766
ESD	ISO10605
HOUSING	Potted
SUPPLY VOLTAGE	9 to 32 VDC
OUTPUTS	8 Digital Outputs • Low Amp Version- 300 mA to 2 Amp total
INPUTS	 24 total inputs 12 Digital (5 to 32 VDC) 12 Configurable as Analog (0 to 5V) or Digital (V)
CAN PROTOCOL	J1939
CAN SOURCE ADDRESS	SA 100-107



XIO2 Hourglass I/O Module – Dimensions





Part Number Matrix GS11103-1XX				
Mounting Style	Potted Box	1	X	X
Digital Outputs	Low Current	X	0	X
RS-485 Parts & Quadrature	RS-485 & NO Quadrature	X	X	0
	NO RS-485 & NO Quadrature	X	X	2
	NO RS-485 & Quadrature	X	X	4
Note: Both RS-485 & Quadrature is not available				

XIO2 Hourglass I/O Module – Connector Pin out Detail

J1		
MATING CONNECTOR	MOLEX 39-01-2060	
TERMINALS	MOLEX 39-00-0429 24-18 AWG MOLEX 39-00-0090 16 AWG	
TERMINAL	CONNECTION	
1	CAN-H	
2	COMMON SUPPLY	
3	CONNECTED TO J2-3 ONLY	
4	CAN-L	
5	CAN SHIELD	
6	+SUPPLY	

J2		
MOLEX 39-01-2060		
MOLEX 39-00-0429 24-18 AWG MOLEX 39-00-0090 16 AWG		
CONNECTION		
CAN-H		
COMMON SUPPLY		
CONNECTED TO J1-3 ONLY		
CAN-L		
CAN SHIELD		
+SUPPLY		

J3		
MATING CONNECTOR	MOLEX 39-01-4050	
TERMINALS	MOLEX 39-00-0429 24-18 AWG MOLEX 39-00-0090 16 AWG	
TERMINAL	CONNECTION	
1	+5VDC OUTPUT	
2	COMMON	
3	RS485-A	
4	RS485-B	
5	RS485 SHIELD	

J4		
MATING CONNECTOR	MOLEX 39-01-2080	
TERMINALS	MOLEX 39-00-0429 24-18 AWG MOLEX 39-00-0090 16 AWG	
TERMINAL	CONNECTION	
1	DIGITAL OUT 1	
2	DIGITAL OUT 2	
3	DIGITAL OUT 3	
4	DIGITAL OUT 4	
5	DIGITAL OUT 5	
6	DIGITAL OUT 6	
7	DIGITAL OUT 7	
8	DIGITAL OUT 8	

J5		
MATING CONNECTOR	MOLEX 39-01-2120	
TERMINALS	MOLEX 39-00-0429 24-18 AWG MOLEX 39-00-0090 16 AWG	
TERMINAL	CONNECTION	
1	ANALOG INPUT 1	
2	ANALOG INPUT 2	
3	ANALOG INPUT 3	
4	ANALOG INPUT 4	
5	COMMON	
6	COMMON	
7	DIGITAL INPUT 1	
8	DIGITAL INPUT 2	
9	DIGITAL INPUT 3	
10	DIGITAL INPUT 4	
11	+5VDC OUTPUT	
12	+5VDC OUTPUT	

	J6
MATING CONNECTOR	MOLEX 39-01-2120
TERMINALS	MOLEX 39-00-0429 24-18 AWG MOLEX 39-00-0090 16 AWG
TERMINAL	CONNECTION
1	ANALOG INPUT 5
2	ANALOG INPUT 6
3	ANALOG INPUT 7
4	ANALOG INPUT 8
5	COMMON
6	COMMON
7	DIGITAL INPUT 5
8	DIGITAL INPUT 6
9	DIGITAL INPUT 7
10	DIGITAL INPUT 8
11	+5VDC OUTPUT
12	+5VDC OUTPUT

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCT AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE.

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