XIO2 CINCH SE I/O Module

MFG# G11103-2XX
(See Part Number Matrix on Page 3)

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

The module is designed to be a node on a CAN-bus, operating at 250 kbps with a 29-bit extended CAN identifier. As such, The module 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 XIO2 Module is installed in a sealed Cinch SE enclosure. It is designed specifically for off-highway applications where rugged controls and long life are absolute 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
EMI	ISO11452-2
RADIATED	ISO 13766
ESD	ISO10605
HOUSING	CINCH SE
SUPPLY VOLTAGE	9 to 32 VDC
OUTPUTS	8 Digital Outputs • Low Amp Version- 300 mA to 2 Amp total • High Amp Version- 2.5 Amps per output
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

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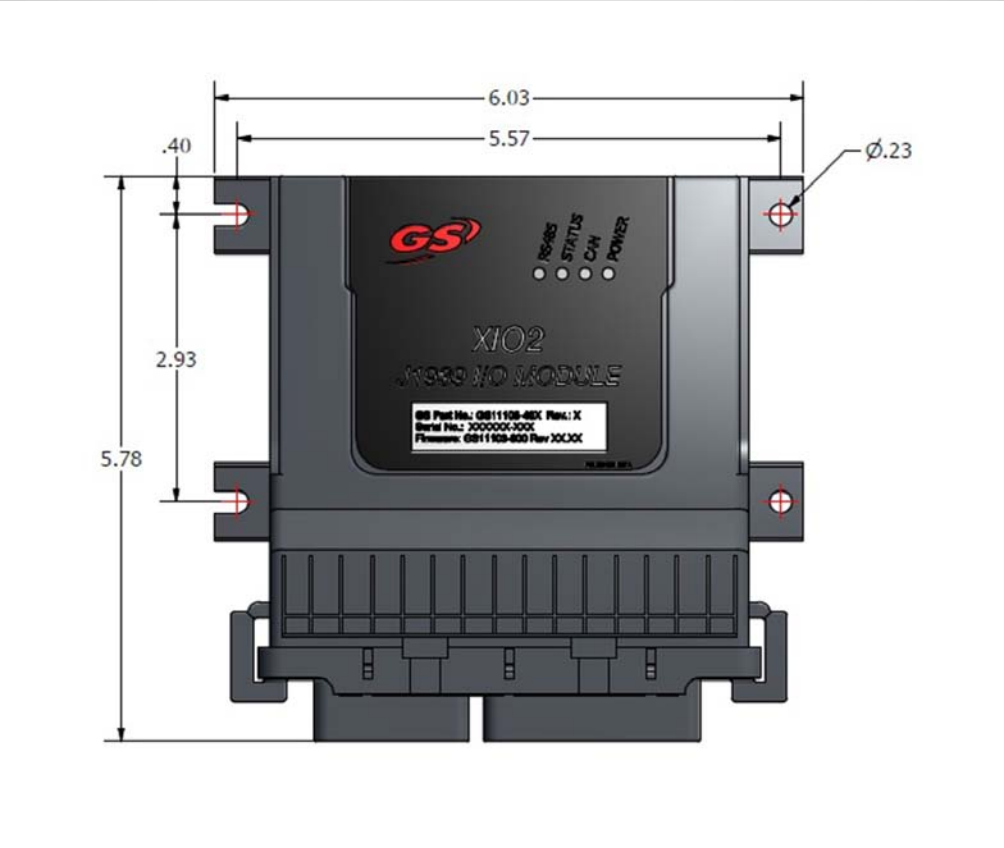
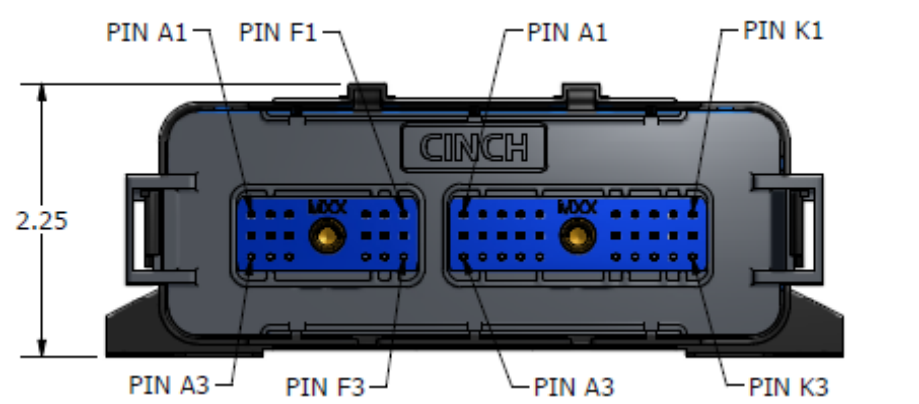
XIO2 CINCH SE – Dimensions





MATING CONNECTORS PART INFO:
18 POLE CONNECTOR CINCH PART # 581-01-18-023
30 POLE CONNECTOR CINCH PART # 581-01-30-029
SOCKET TERMINAL FOR 20-18 AWG CINCH PART # 425-00-00-872
SOCKET TERMINAL FOR 18-16 AWG CINCH PART # 425-00-00-873
CAVITY PLUG CINCH PART # 581-00-00-011

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XIO2 CINCH SE – Connector Pin out Detail

18POS CONNECTOR PINOUT	
PIN	FUNCTION
A1	CAN-H
B1	CAN-H
C1	+9-32VDC POSITIVE SUPPLY
D1	DIGITAL OUTPUT 1
E1	DIGITAL OUTPUT 2
F1	DIGITAL OUTPUT 3
A2	CAN-L
B2	CAN-L
C2	+9-32VDC POSITIVE SUPPLY
D2	DIGITAL OUTPUT 4
E2	DIGITAL OUTPUT 5
F2	DIGITAL OUTPUT 6
A3	COMMON SUPPLY
B3	COMMON SUPPLY
C3	COMMON SUPPLY
D3	+9-32VDC POSITIVE
E3	DIGITAL OUTPUT 7
F3	DIGITAL OUTPUT 8

30POS CONNECTOR PINOUT	
PIN	FUNCTION
A1	VOLTAGE INPUT 1
B1	DIGITAL INPUT 1
C1	DIGITAL INPUT 4
D1	VOLTAGE INPUT 5
E1	DIGITAL INPUT 5
F1	DIGITAL INPUT 8
G1	VOLTAGE INPUT 9
H1	DIGITAL INPUT 9
J1	DIGITAL INPUT 12
K1	VOLTAGE INPUT 4
A2	VOLTAGE INPUT 2
B2	DIGITAL INPUT 2
C2	+5VREF POSITIVE SUPPLY
D2	VOLTAGE INPUT 6
E2	DIGITAL INPUT 6
F2	+5VREF POSITIVE SUPPLY
G2	VOLTAGE INPUT 10
H2	DIGITAL INPUT 10
J2	RS-485B
K2	VOLTAGE INPUT 8
A3	VOLTAGE INPUT 3
B3	DIGITAL INPUT 3
C3	5VREF NEGATIVE SUPPLY (COMMON)
D3	VOLTAGE INPUT 7
E3	DIGITAL INPUT 7
F3	RS-485A
G3	VOLTAGE INPUT 11
H3	DIGITAL INPUT 11
J3	5VREF NEGATIVE SUPPLY (COMMON)
K3	VOLTAGE INPUT 12

PART NUMBER MATRIX GS11103-2XX

Mounting Style	Cinch Box	2	X	X
Digital Outputs	Low Current	X	0	X
	2.5 Amp #	X	1	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

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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