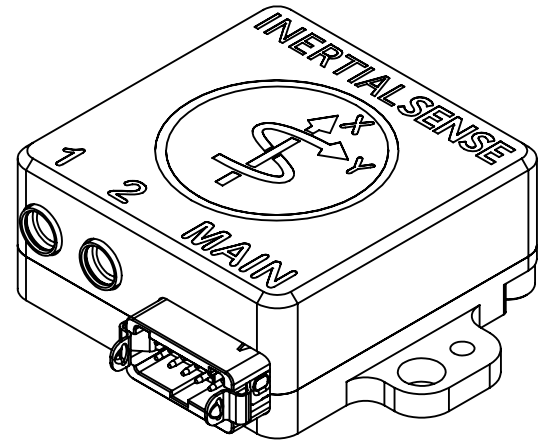



ACTUAL SIZE



SCALE 2 : 1

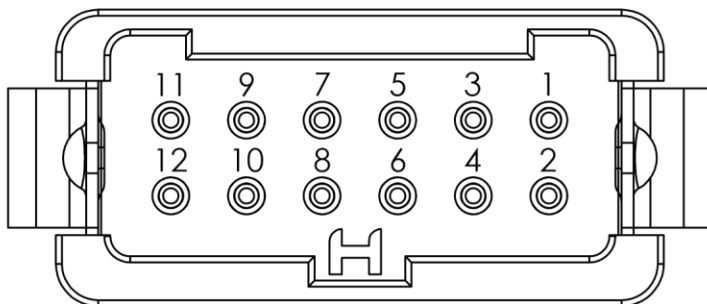
INERTIAL SENSE 384 S 400 W Suite 125 Lindon, UT 84042		 INERTIAL SENSE micro navigation systems	
TITLE: Ruggedized uINS Assembly			
SIZE <b>A</b>	DWG. NO. IS-uINS-11	REV <b>A</b>	
SCALE: 3:2		SHEET 1 OF 1	

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF INERTIAL SENSE. INCIDENTAL REPRODUCTION FOR THE END USER'S INTERNAL USE IS ALLOWED. ALL OTHER REPRODUCTION AND/OR DISSEMINATION IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF INERTIAL SENSE.

DIMENSIONS IN INCHES

**“MAIN” Connector Pinout**  
(on Rugged side, not cable side)



Pin	Name	Direction	Description
1	GND	-	Common ground
2	VIN	PWR IN	4V – 20V system supply input <sup>1</sup>
3	USB.VCC	PWR IN	5V system supply input <sup>1</sup> from USB bus. Using this pin will enable the FTDI USB. Use the VIN pin instead to disable the FTDI USB.
4	USB.D+	I/O	USB data positive line (Serial 0)
5	GPS PPS	I/O	GPS time synchronization output pulse (1Hz, 10% duty cycle)
6	USB.D-	I/O	USB data negative line (Serial 0)
7	G3/Tx0/R85Tx1-	O	Serial 0 output (TTL or RS232) <sup>2</sup> Serial 1 output- (RS485) <sup>3</sup>
8	G7/Tx1/485Tx1+/CANH	O	Serial 1 output (TTL or RS232) <sup>3</sup> Serial 1 output+ (RS485). CAN bus H line.
9	G4/Rx0/485Rx1-	I	Serial 0 input (TTL or RS232) <sup>2</sup> Serial 1 input- (RS485) <sup>3</sup>
10	G6/Rx1/485Rx1+/CANL	I	Serial 1 input (TTL or RS232) <sup>3</sup> Serial 1 input+ (RS485) <sup>3</sup> . CAN bus L line.
11	G1/SDA/I2C_EN	I/O	I2C data. Hold high during power-up to enable I2C.
12	G2/SCL/STROBE	I	I2C clock. Strobe time sync input.

<sup>1</sup> The system can be powered by either VIN or USB.VCC.

<sup>2</sup> Serial 0 is configured with SMT jumpers for TTL, RS232, or FTDI USB (default, USB.D+ and USB.D-).

<sup>3</sup> Serial 1 is configured with SMT jumpers for TTL, RS232(default), RS485, or CAN.

**PROPRIETARY AND COMPETITION SENSITIVE**

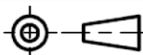
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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL ± 1/8  
DECIMAL .XX ± 0.01 .XXX ± 0.005  
ANGLES ± 1°  
DO NOT SCALE DRAWING

MATERIAL  
X

THIRD ANGLE PROJECTION



	NAME	DATE
DRAWN	LM	4/20/2018
CHECKED	X	X
ENG APPR.	X	X
MFG APPR.	X	X

COMMENTS:

Inertial Sense  
72 N 720 E  
Salem, UT 84653



TITLE:

**Ruggedized uINS  
Pinout**

SIZE  
**A**

DWG. NO.  
**IS-uINS-10**

REV  
**A**

SCALE: 8:1

SHEET 1 OF 1