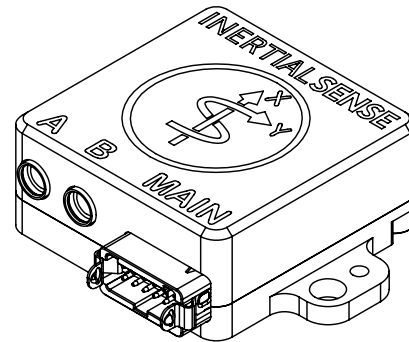


ACTUAL SIZE




SCALE 2 : 1

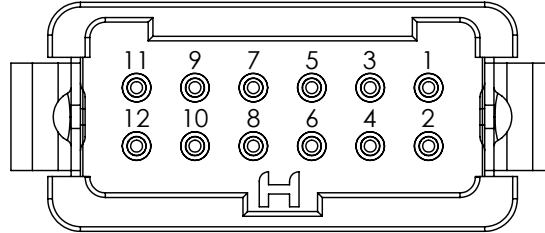
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DIMENSIONS IN INCHES

INERTIAL SENSE 72 N 720 E Salem, UT 84653		 <b>INERTIAL SENSE</b> <small>micro navigation systems</small>	
TITLE:  Rugged uINS Assembly			
SIZE <b>A</b>	DWG. NO.  IS-uINS-10		REV  <b>A</b>
SCALE: 3:2			SHEET 1 OF 2

## "MAIN" Connector Pinout



Pin	Name	Direction	Description
1	GND	-	Common ground.
2	VIN	PWR IN	4V – 20V supply voltage input <sup>1</sup> .
3	USB.VCC	PWR IN	5V supply voltage input <sup>1</sup> from USB bus.
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.

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INERTIAL SENSE  
72 N 720 E  
Salem, UT 84653



TITLE:

Rugged uINS Pinout

SIZE

A

DWG. NO.

IS-uINS-10

REV

A

SCALE: 8:1

SHEET 2 OF 2