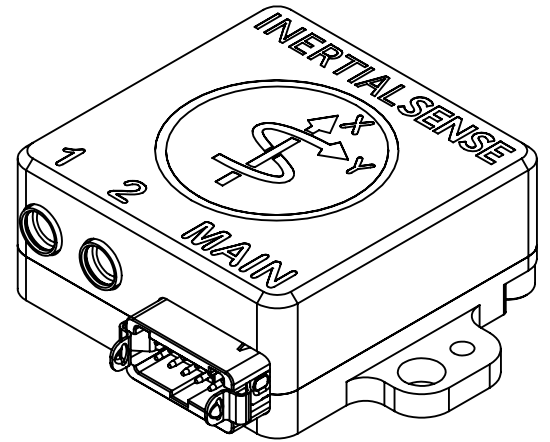



ACTUAL SIZE



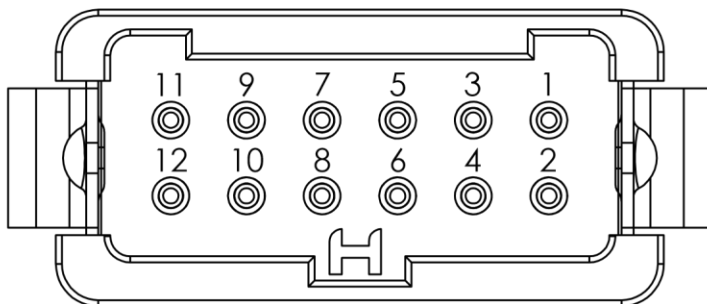
SCALE 2 : 1

INERTIAL SENSE 384 S 400 W Suite 125 Lindon, UT 84042		
TITLE: Ruggedized uINS Assembly		
SIZE A	DWG. NO. IS-RUG-1.1	REV A
SCALE: 3:2		SHEET 1 OF 1

DIMENSIONS IN INCHES

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“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 ¹
3	USB.VCC	PWR IN	5V system supply input ¹ 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) ² Serial 1 output- (RS485) ³
8	G7/Tx1/485Tx1+	O	Serial 1 output (TTL or RS232) ³ Serial 1 output+ (RS485).
9	G4/Rx0/485Rx1-	I	Serial 0 input (TTL or RS232) ² Serial 1 input- (RS485) ³
10	G6/Rx1/485Rx1+	I	Serial 1 input (TTL or RS232) ³ Serial 1 input+ (RS485) ³ .
11	G1/CANL ⁴ /Rx2 ⁴	I/O	High level (CAN bus) ⁴ . Serial 2 input (TTL) ⁴ .
12	G2/CANH ⁴ /Tx2 ⁴ /STROBE	I/O	Low level (CAN bus) ⁴ . Serial 2 output (TTL) ⁴ . Strobe time sync input.

¹ The system can be powered by either VIN or USB.VCC.


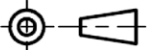
² Serial 0 is configured with SMT jumpers for TTL, RS232, or FTDI USB (default, USB.D+ and USB.D-).

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

⁴ Only available with uINS-3.2 and later.

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	DRAWN	LM	4/20/2018	Inertial Sense 72 N 720 E Salem, UT 84653 
	CHECKED	X	X	
	ENG APPR.	X	X	
	MFG APPR.	X	X	
MATERIAL	X			TITLE: <h2 align="center">Ruggedized uINS Pinout</h2>
THIRD ANGLE PROJECTION				
SIZE A DWG. NO. IS-RUG-1.1 REV A				SCALE: 8:1 SHEET 1 OF 1