

# Product Data Sheet

## AHRS-8P and DC-4EP

### Precision Mounting Option



#### Description

The precision mounting option for Sparton's AHRS-8 and DC-4E inertial sensor systems provides accurate installation and alignment within the end product and reduce the need for installation specific bore-sight adjustments. The compact high-density surface mount cable connection to the inertial system eliminates the need for a custom interface PCB.

#### Features

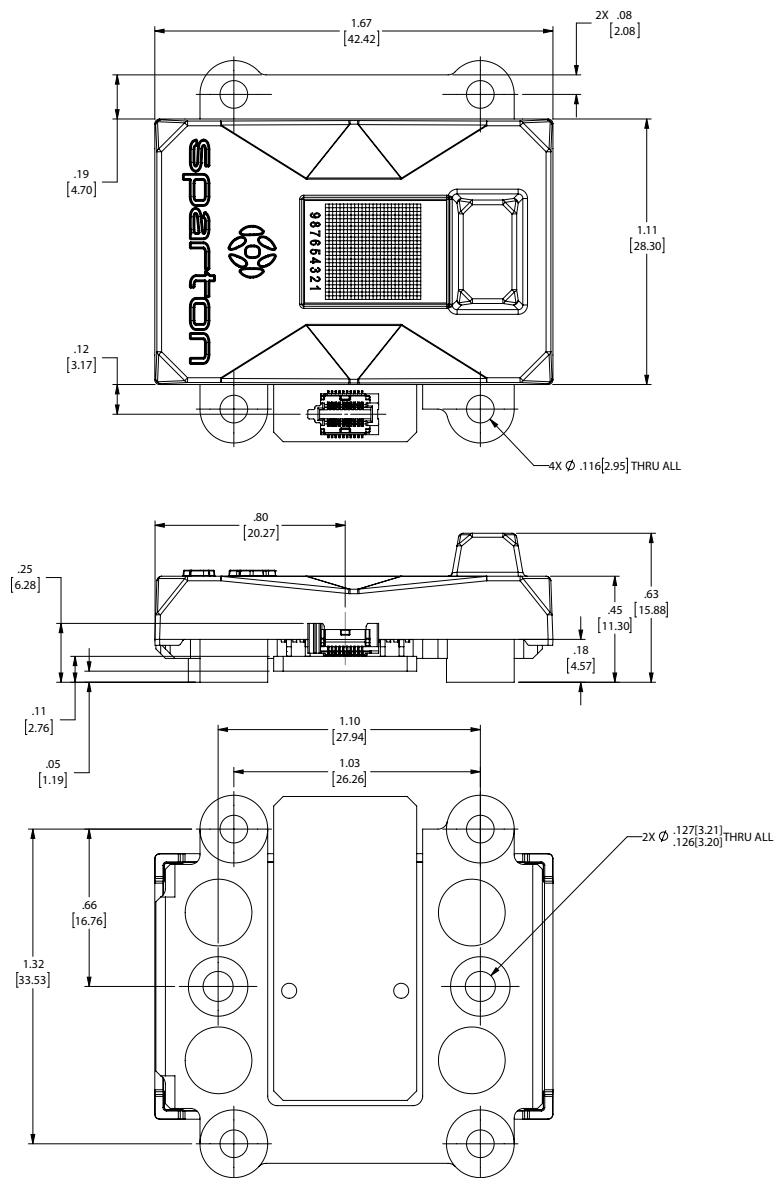
- Precise installation in customer system enables accurate platform level alignment with the sensor's calibration frame of reference
- Cable interface for more flexible mounting options
- Facilitates sensor platform integration in high accuracy applications
- Light weight: 23.7g (incl. AHRS-8 or DC-4E)
- Dimensions: 42.42 x 40.74 x 15.88 mm (L x W x H)
- RoHS Compliant Product

#### Typical Applications

- Laser range finders and optical targeting systems
- Accurate attitude, position and orientation sensing
- Precision autonomous unmanned vehicle guidance

**Precision Mount**

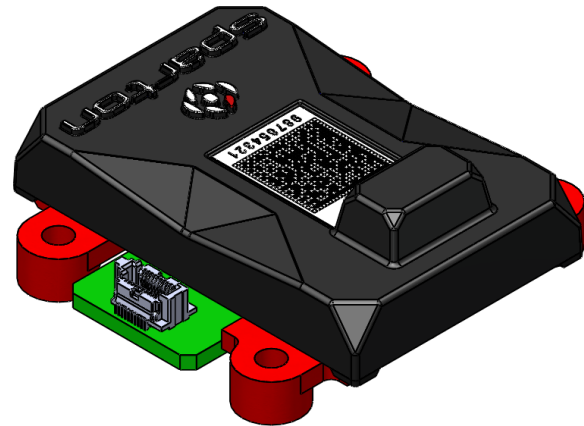
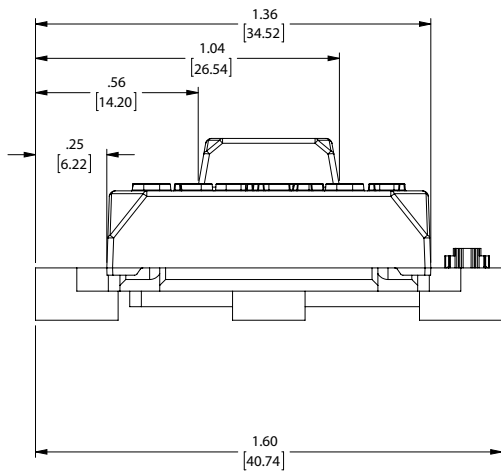
#### Mechanical Details



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NAVIGATION AND EXPLORATION

**Connector (Connector Type: Samtec SS4-10-3.00-L-D-K-TR; Mating connector: ST4-10-1.00-L-D-P-TR):**

Connector – Pin Number	Pin Name	I/O	Function
1	V+	I	+4 to +10V DC power supply input. Max load = (80mA (AHR8-8), 80mA, (GEDC-6EP), 33mA (DC-4EP))
2	V+	I	+4 to +10V DC power supply input. Max load = (80mA (AHR8-8), 80mA, (GEDC-6EP), 33mA (DC-4EP))
3	USER_RXD	I	3.3V logic RXD input to User Com Port
4	USER_RXD	I	3.3V logic RXD input to User Com Port
5	USER_TXD	O	3.3V logic TXD output from User Com Port
6	USER_TXD	O	3.3V logic TXD output from User Com Port
7	/RESET	I	3.3V logic, active-low reset input (the pin has a weak pull-up)
8	/RESET	I	3.3V logic, active-low reset input (the pin has a weak pull-up)
9	/EINT0	I	3.3V logic, active-low interrupt input (the pin has a weak pull-up). Used for programming purposes
10	/EINT0	I	3.3V logic, active-low interrupt input (the pin has a weak pull-up). Used for programming purposes
11	GND	N/A	System Ground
12	GND	N/A	System Ground
13	V_TEST	O	3.3V regulator output for test purposes (factory use only)
14	V_TEST	O	3.3V regulator output for test purposes (factory use only)
15	DEBUG_RXD	I	3.3V logic RXD Input to Debug Port (factory use only)
16	DEBUG_RXD	I	3.3V logic RXD Input to Debug Port (factory use only)
17	DEBUG_TXD	O	3.3V logic TXD Output from Debug Port (factory use only)
18	DEBUG_TXD	O	3.3V logic TXD Output from Debug Port (factory use only)
19	#WP_EEPROM	I	3.3V logic, active-low EEPROM write protect (the pin has 10kΩ pull-down)
20			Reserved



Specifications subject to change without notice.  
 Please visit us at [www.spartonnavex.com](http://www.spartonnavex.com)  
 for additional information on the Sparton Navigation and Exploration line of inertial systems.  
 For more information and detailed specifications scan QR code.  
 For support, please e-mail: [productsupport@sparton.com](mailto:productsupport@sparton.com)

