

## **VegaAIS AtoN Station Internal Photos**

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## Version History

| Version | Released                  | Description     |
|---------|---------------------------|-----------------|
| 1.0.0   | 15 <sup>th</sup> Dec 2014 | Initial Release |

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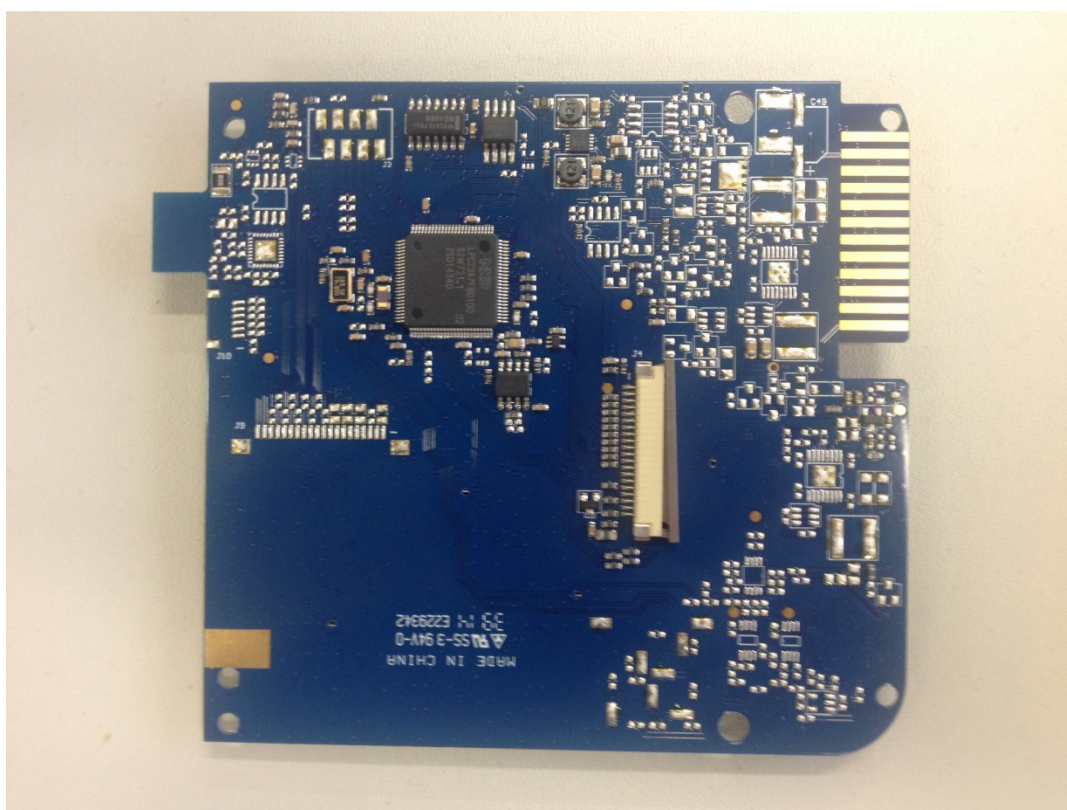
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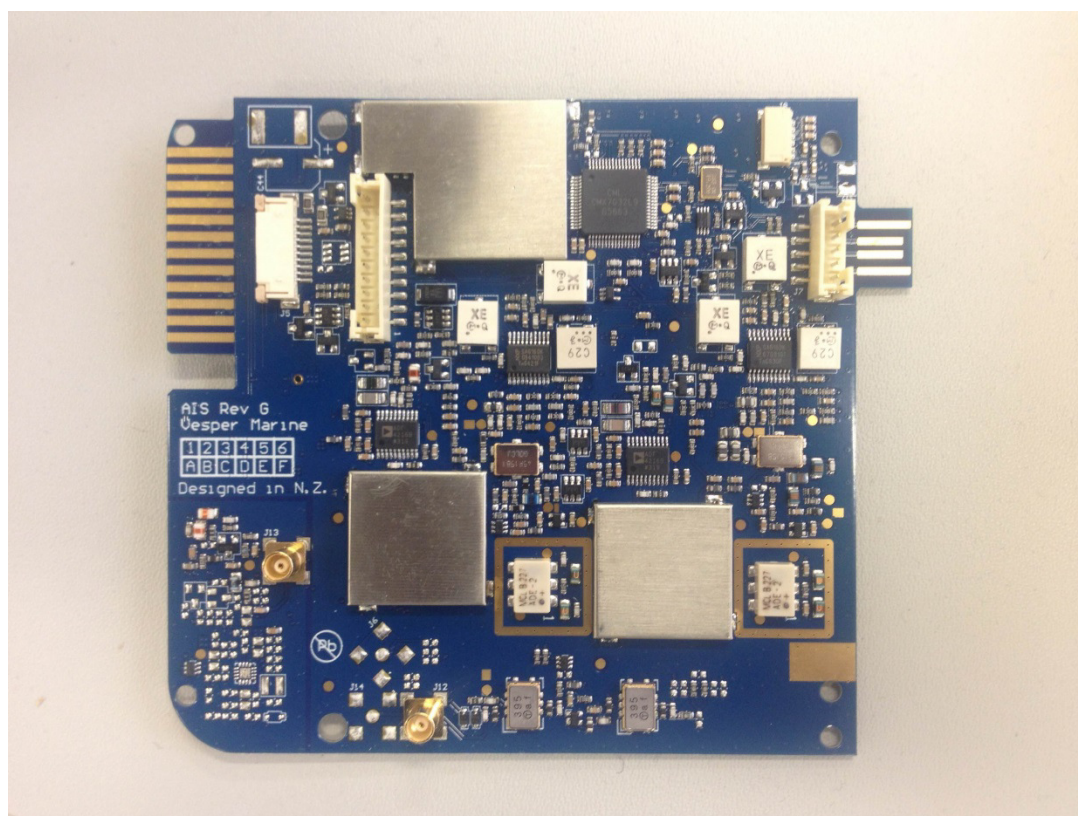
**Product Identification**

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| Product Family                  | VegaAIS AtoN Station                                                      |
| Manufacturer                    | Vega Industries Ltd, 17/21 Heriot Dr, Porirua 5022, New Zealand           |
| OEM Module Manufacturer Details | Vesper Marine Ltd., 45 Sale St, Freeman's Bay, Auckland 1010, New Zealand |
| Model Numbers                   | VAIS-1S, VAIS-1E, VAIS-3S, VAIS-3E                                        |
| Power Supply                    | 10 – 36 VDC                                                               |
| Frequency Range                 | 156.025 – 162.025 MHz                                                     |
| Transmit Power                  | 41dBm (12.5W), 33dBm (2W)                                                 |
| Modulation Technique            | FM GMSK                                                                   |
| Channel Spacing                 | 25kHz                                                                     |
| Temperature Range               | -30 - +60°C                                                               |
| Intended Users                  | Port Authorities, Harbourmasters, Maritime Authorities                    |
| Enclosure                       | IP68                                                                      |

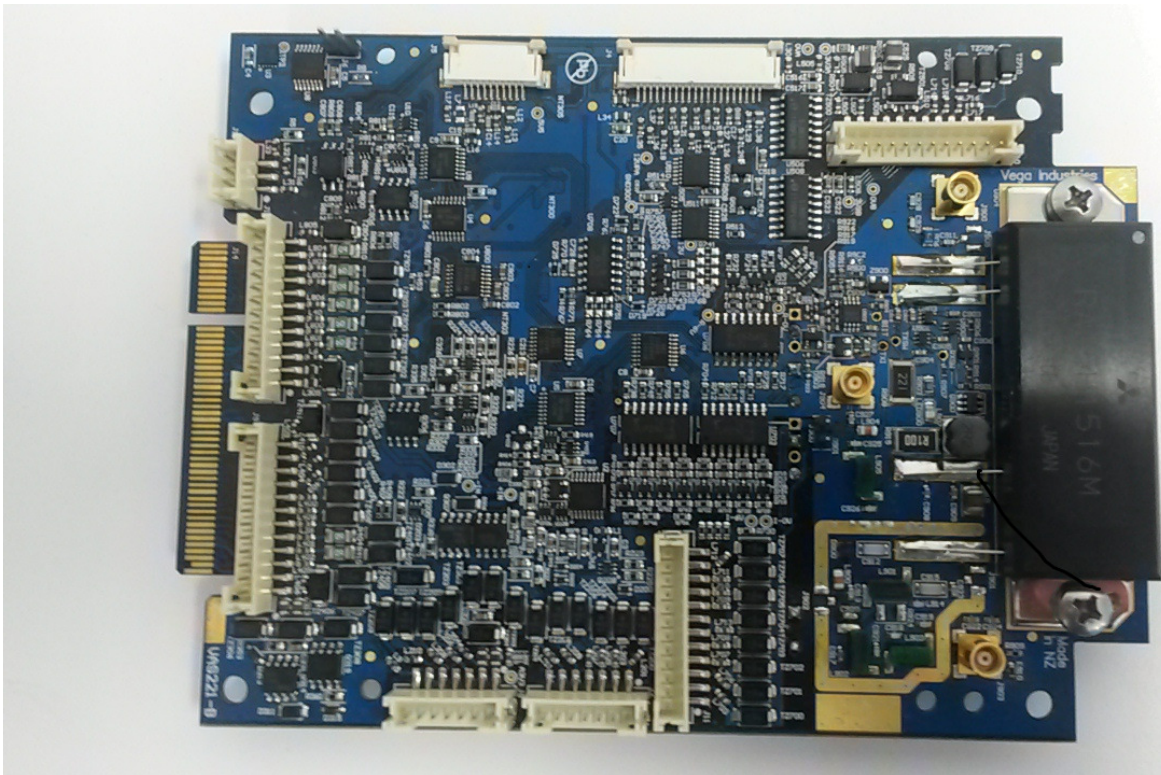
## Internal Photos – PCB Assemblies



AIS Engine – top side



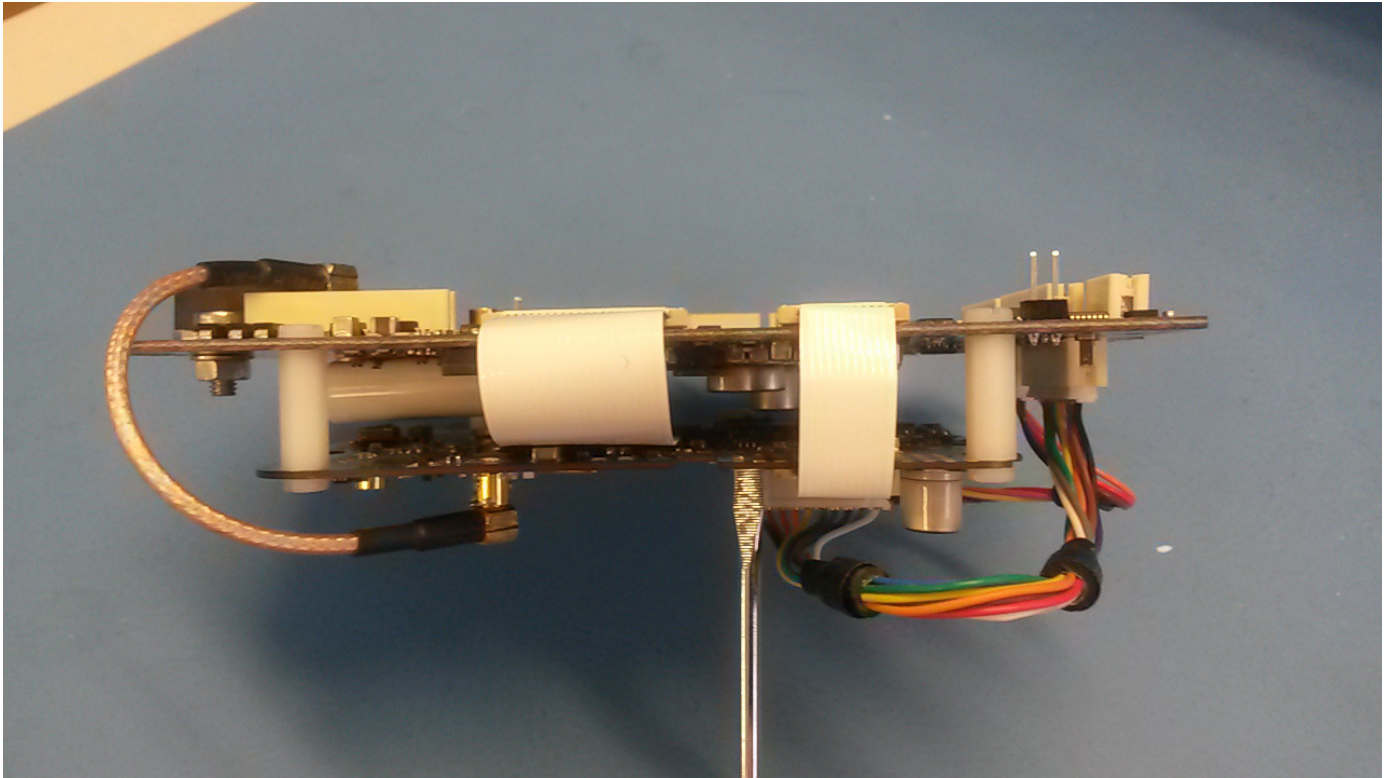
AIS Engine – bottom side



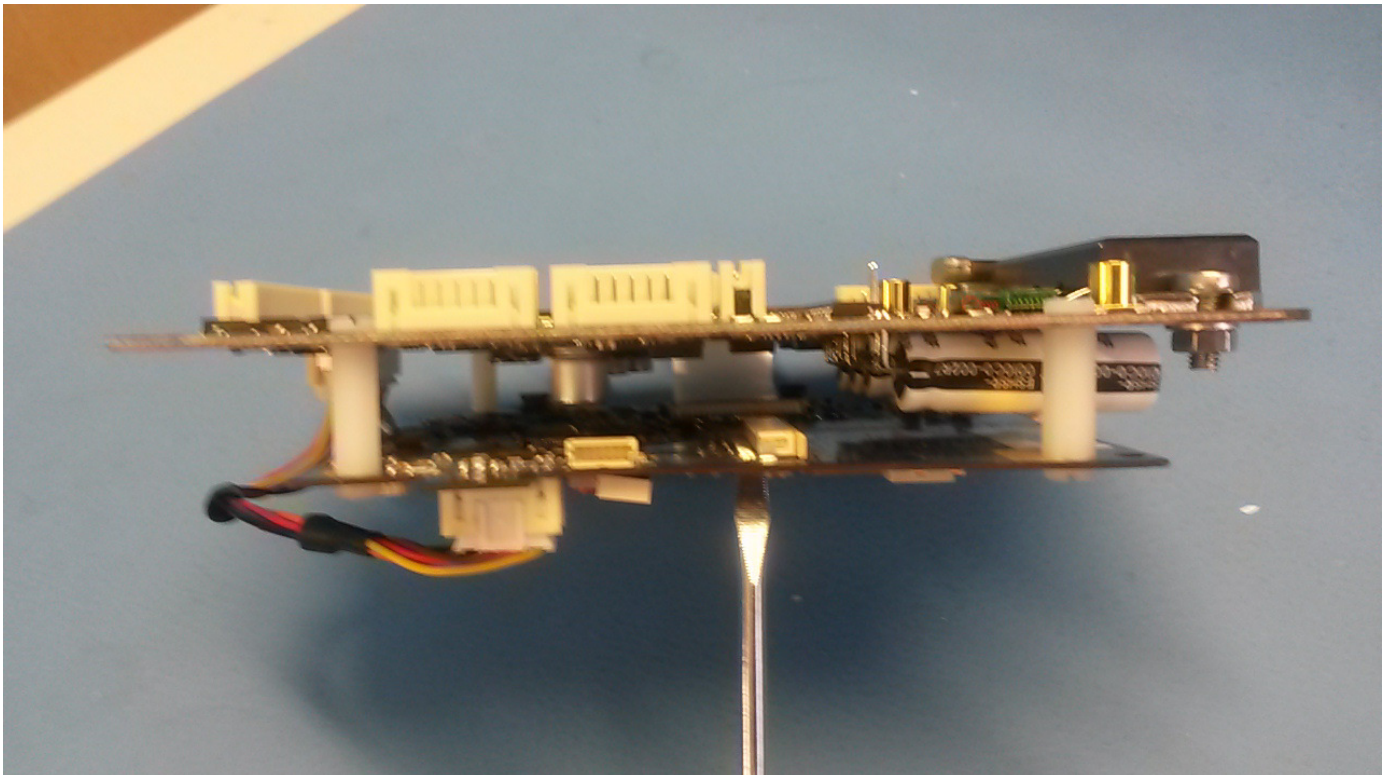
RF Amplifier and Monitoring daughterboard – top side



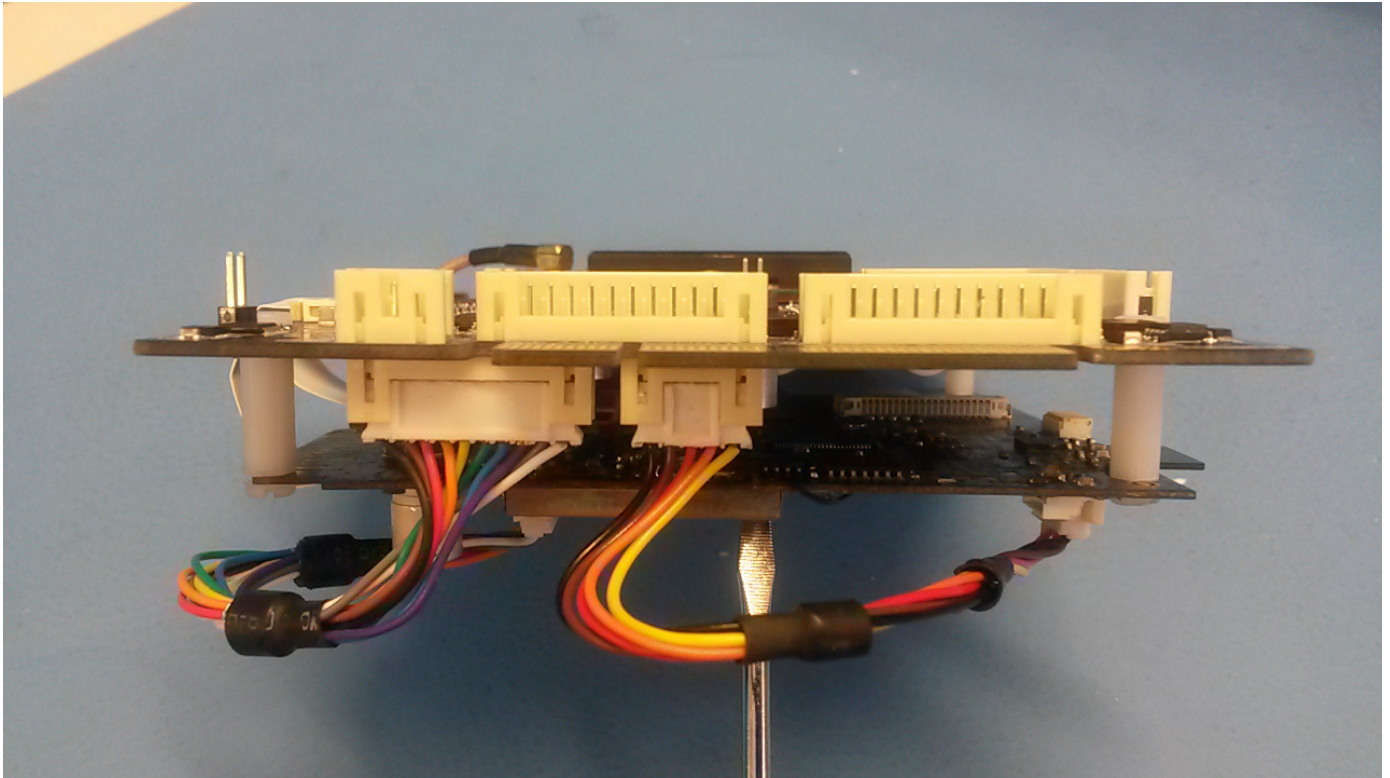
RF Amplifier and Monitoring daughterboard – bottom side



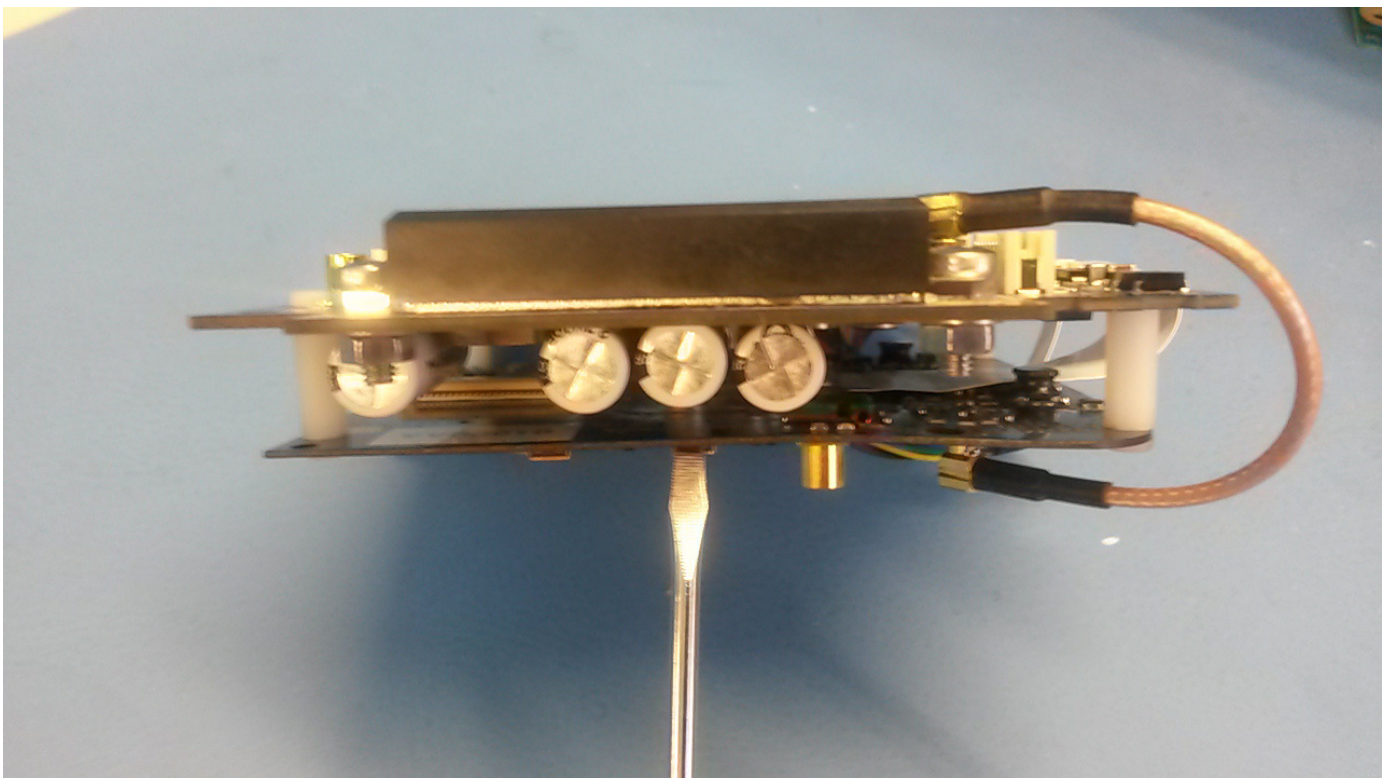
AIS Engine and Daughterboard Assembly – side view 1



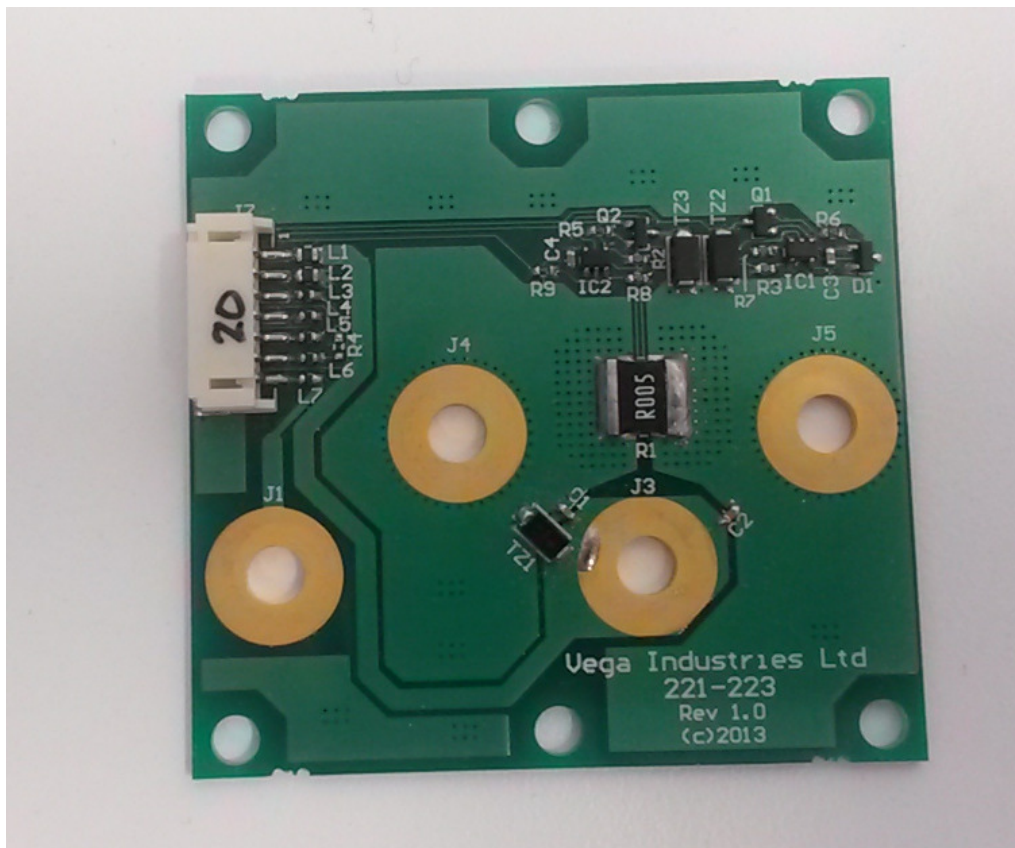
AIS Engine and Daughterboard Assembly – side view 2



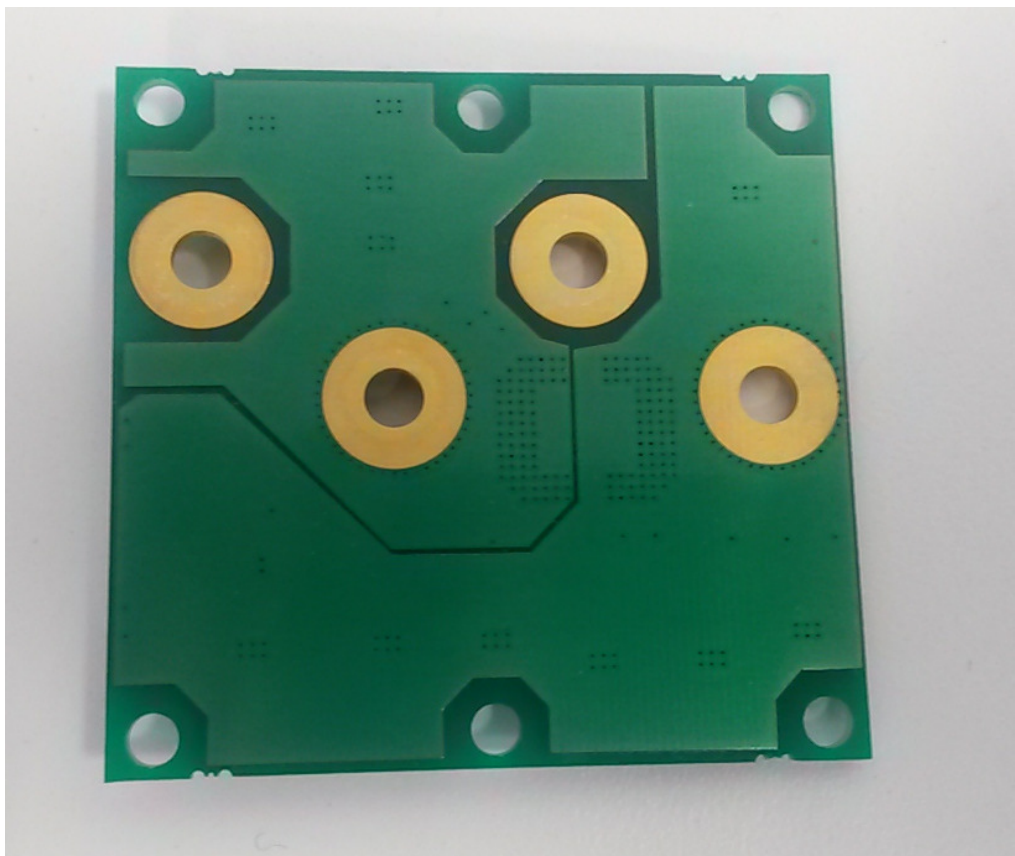
AIS Engine and Daughterboard Assembly – back view



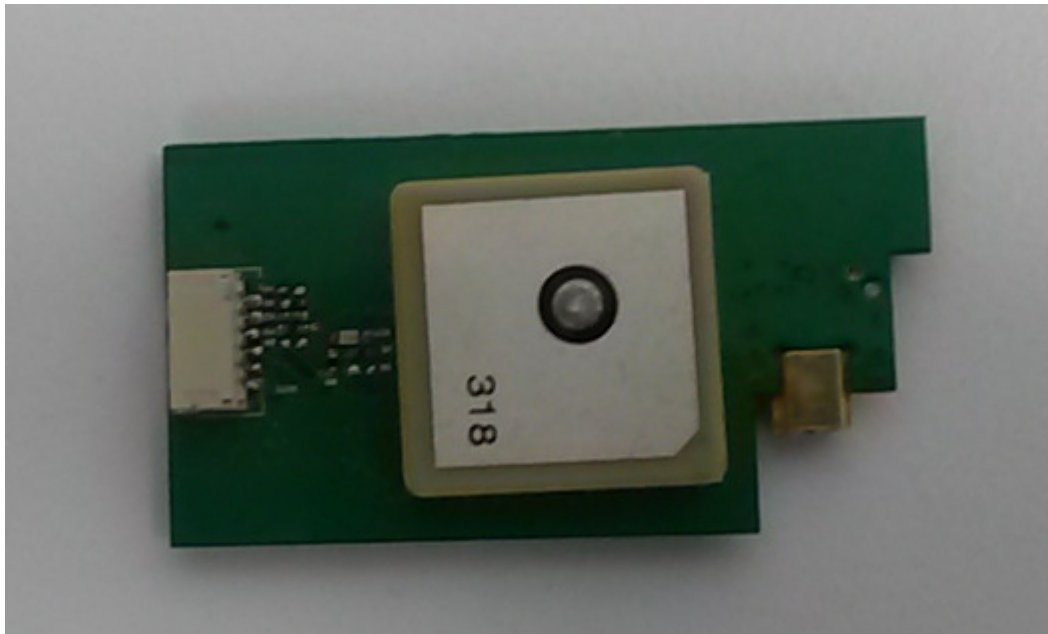
AIS Engine and Daughterboard Assembly – front view



Current Sensor board – top side



Current Sensor board – bottom side

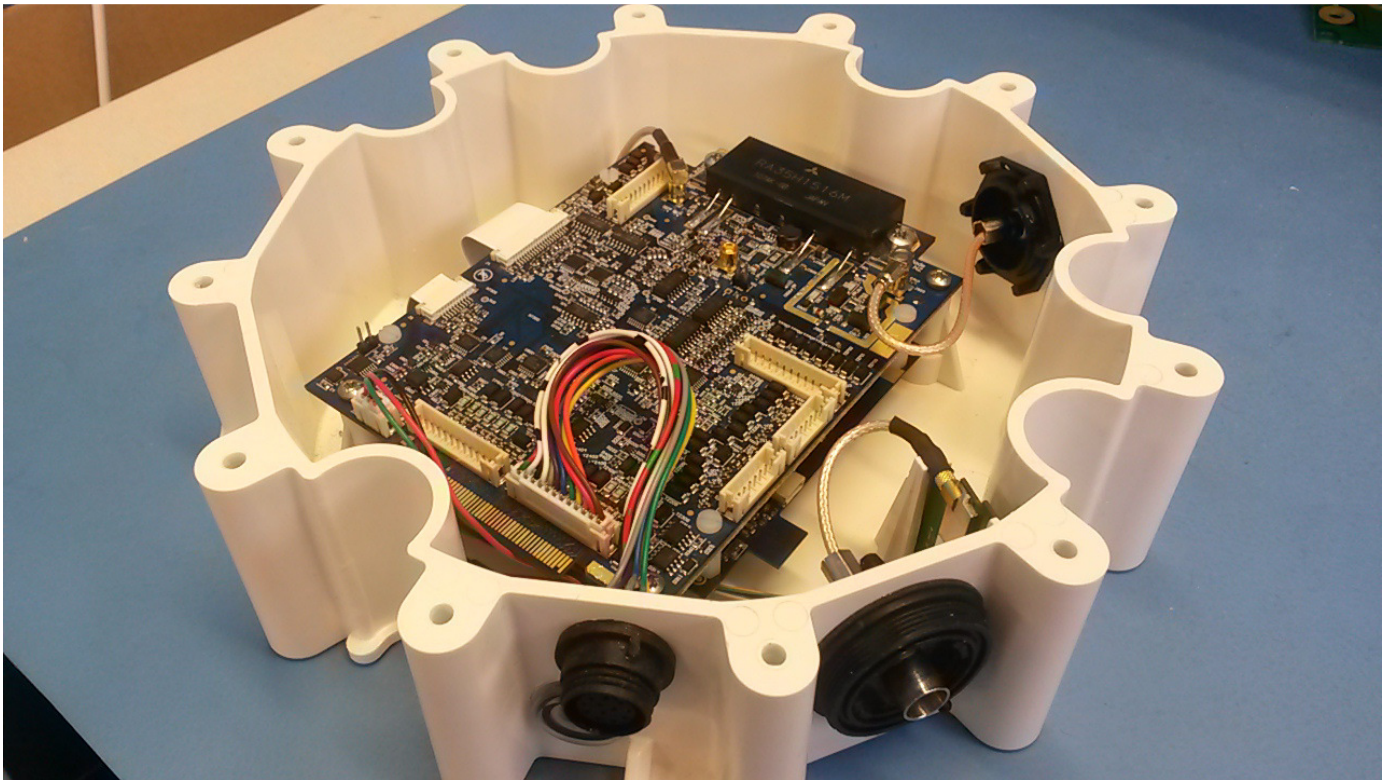


GPS module – top side

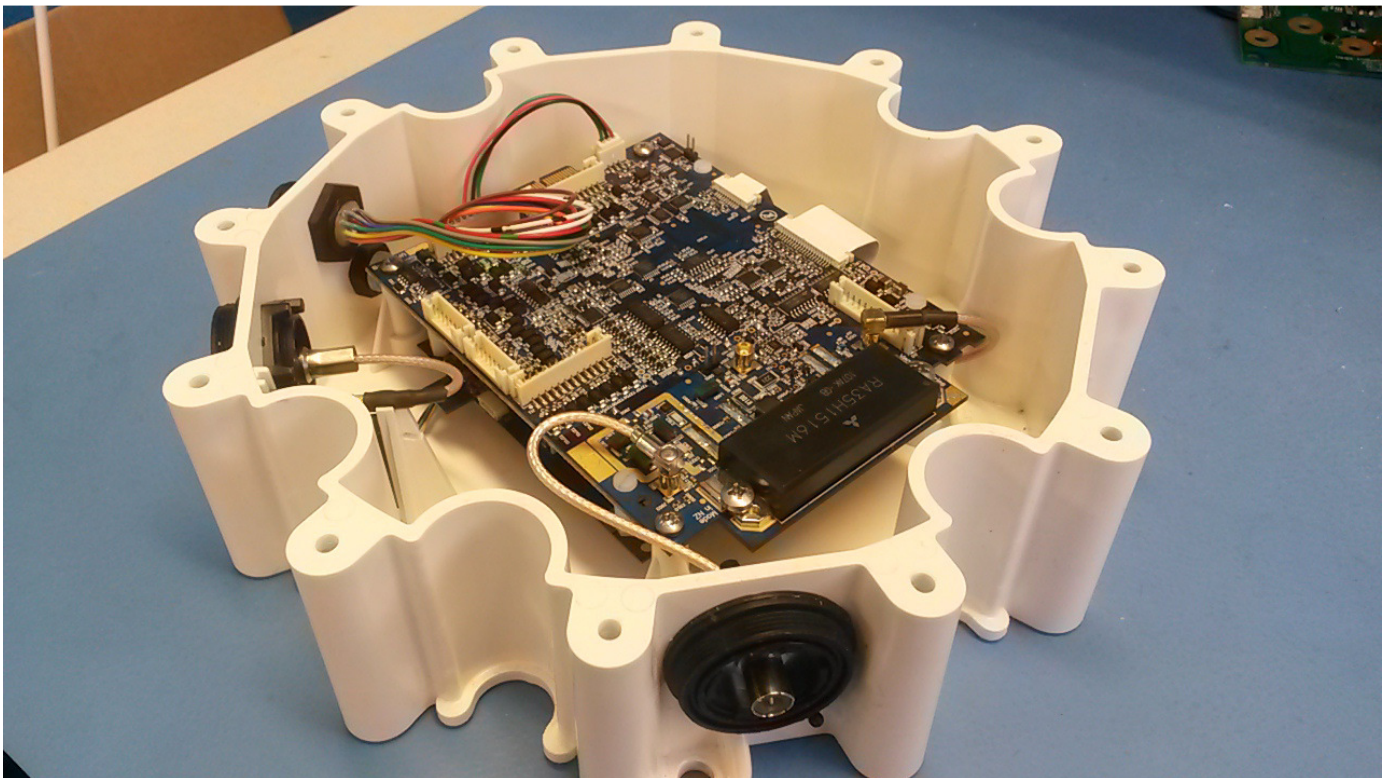


GPS module – bottom side

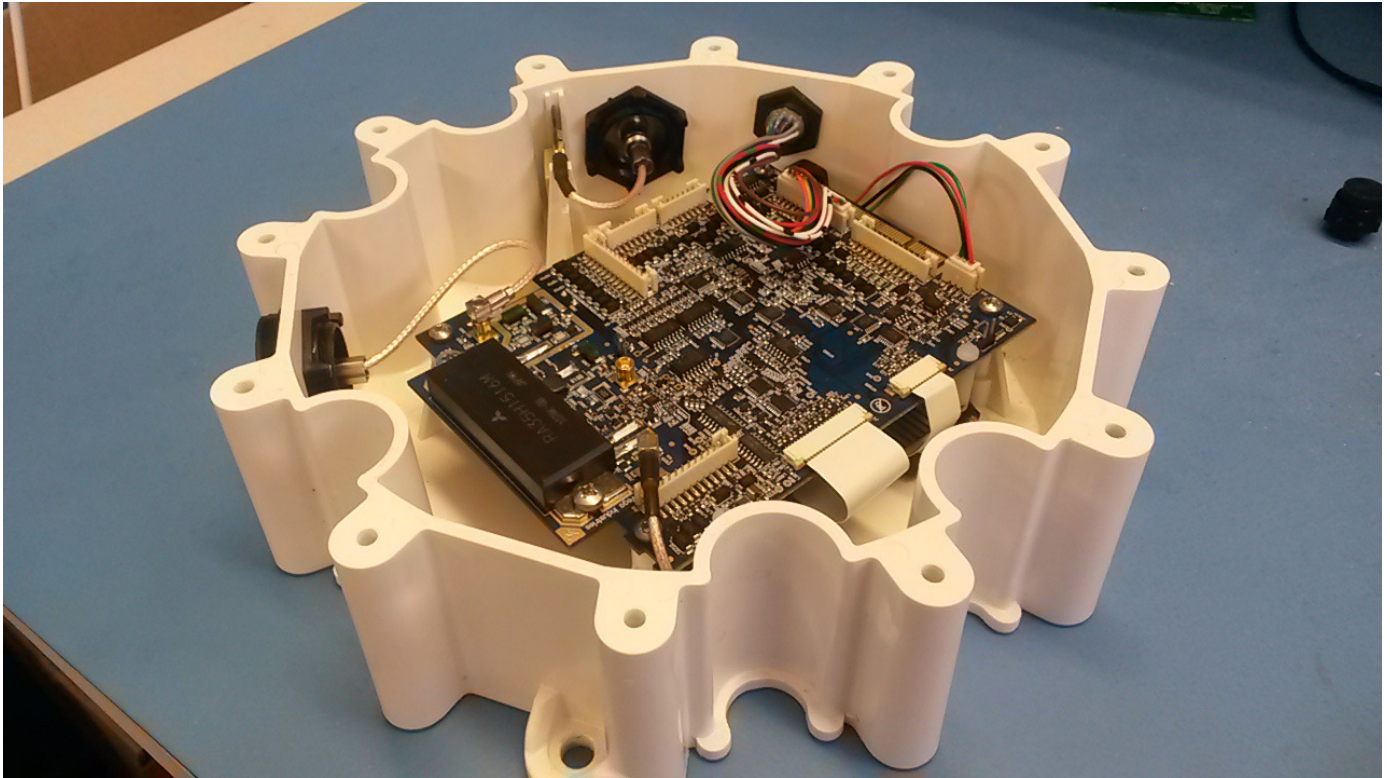
## Internal Photos – Assembly stack up



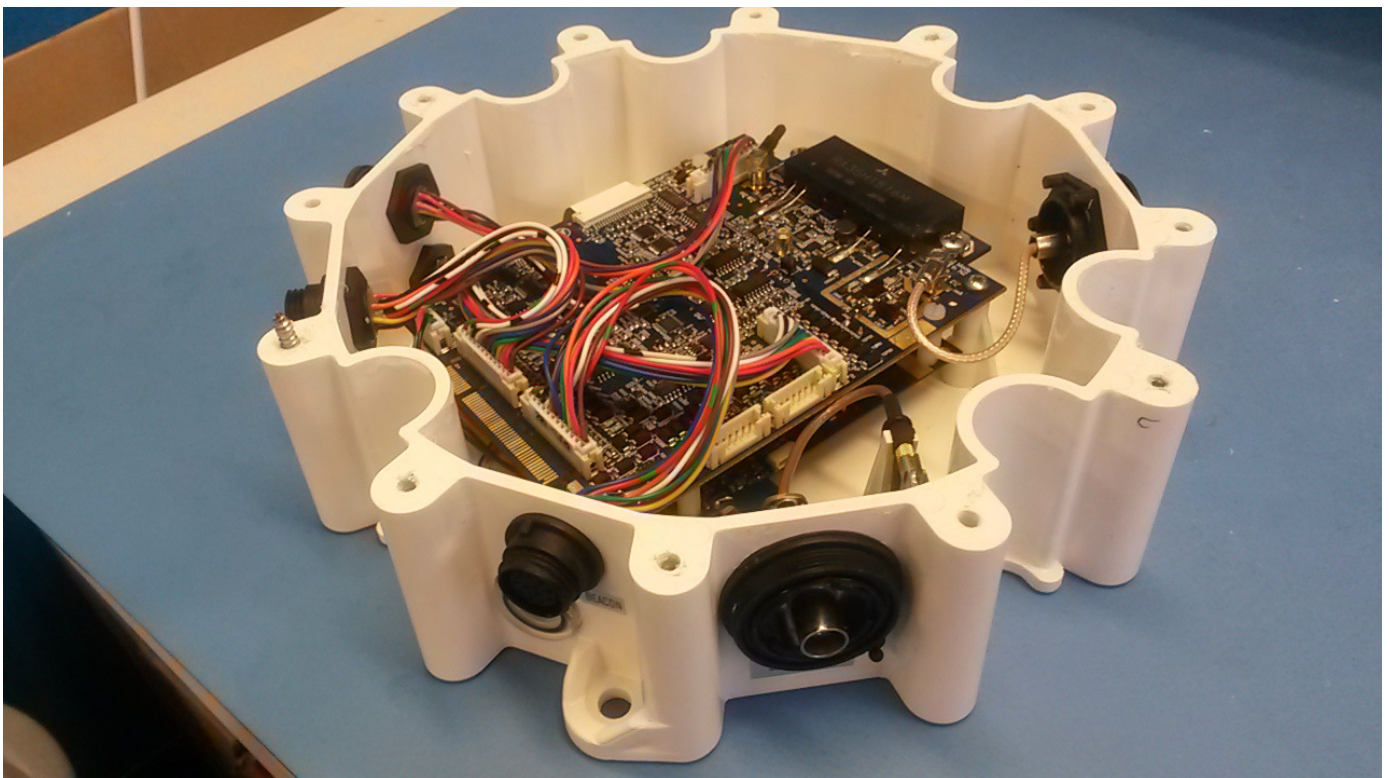
VegaAIS Standard Assembly – view 1



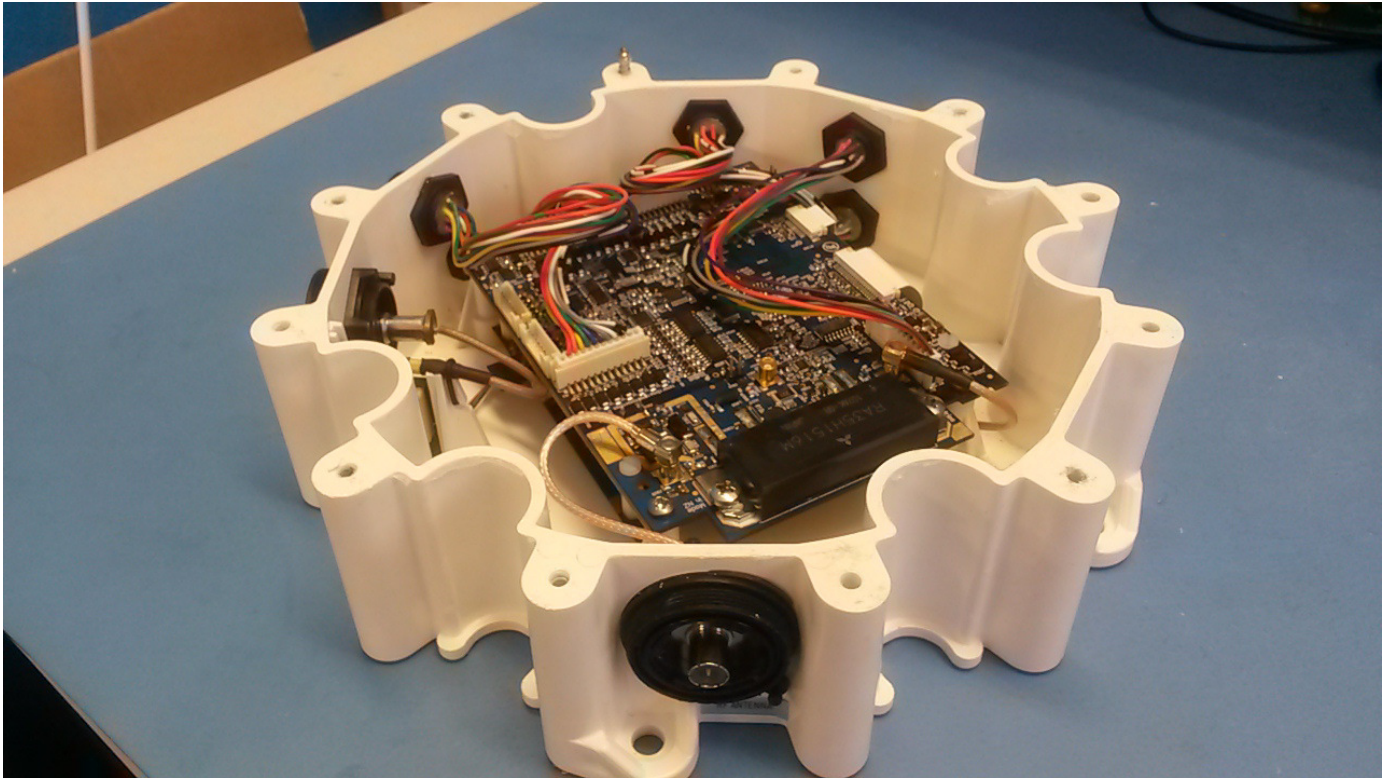
VegaAIS Standard Assembly – view 2



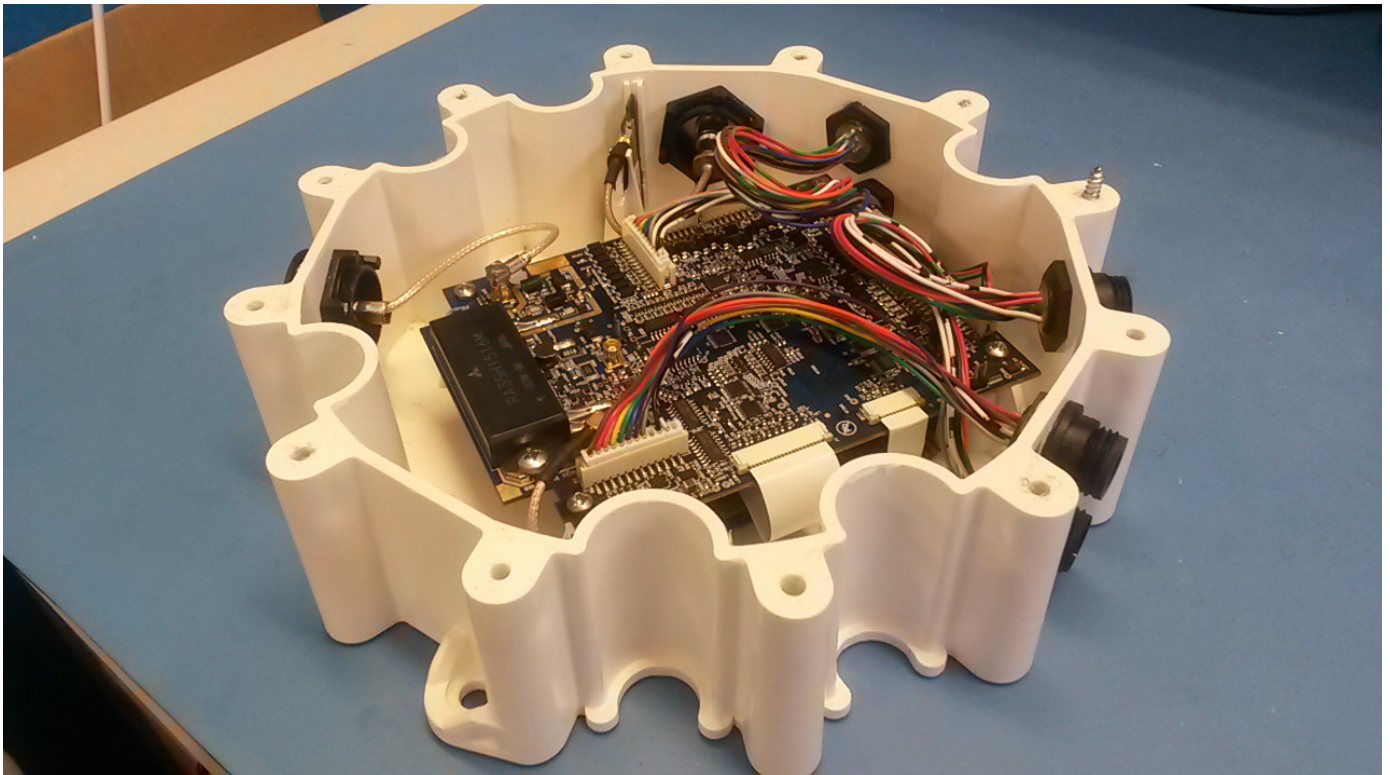
VegaAIS Standard Assembly – view 3



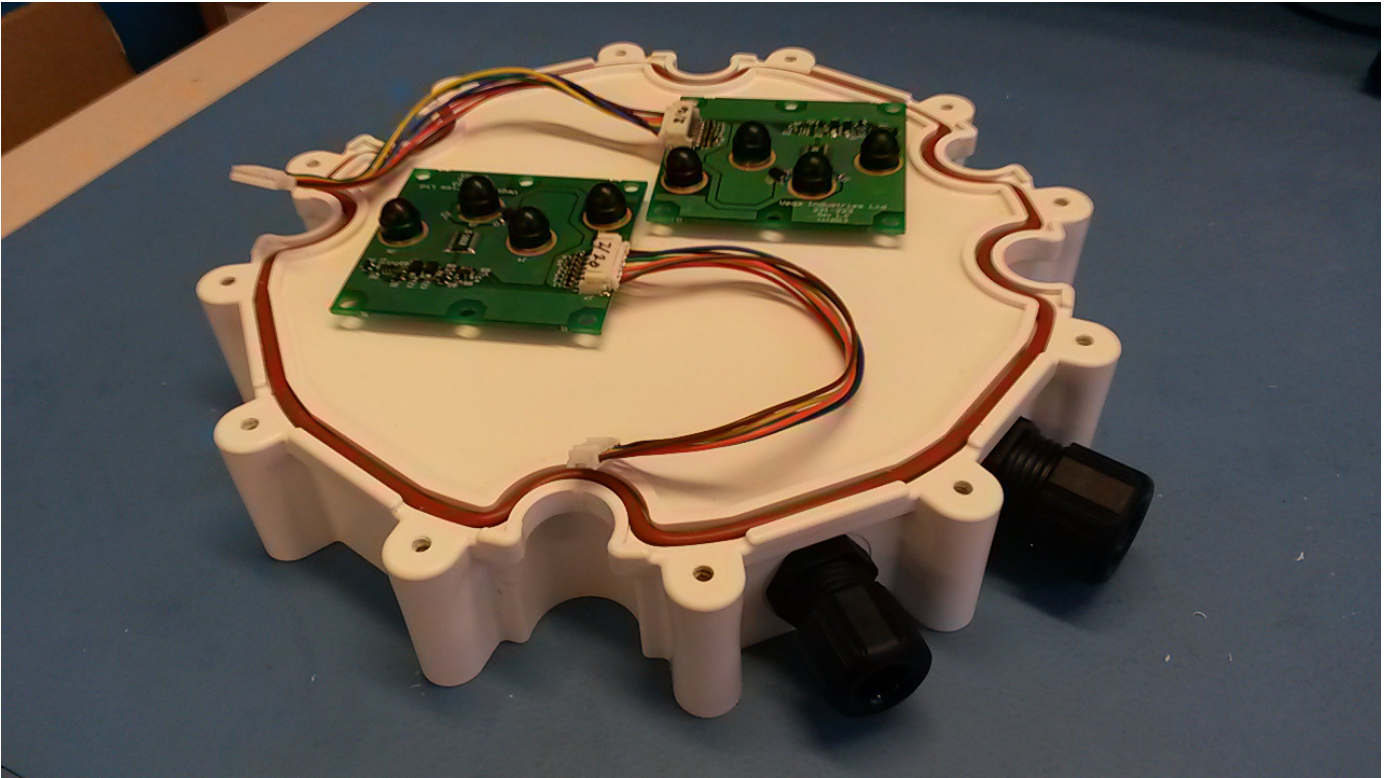
VegaAIS Extended I/O Assembly – view 1



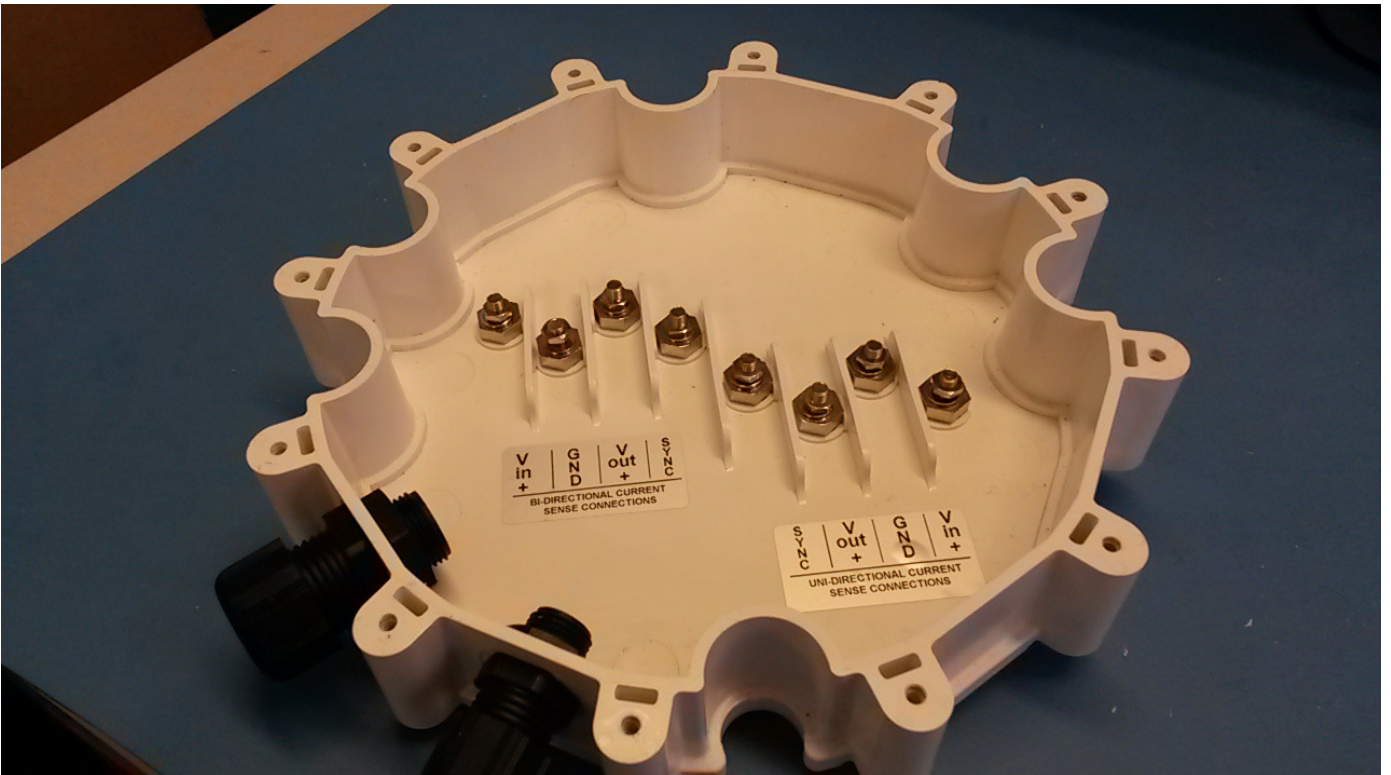
VegaAIS Extended I/O Assembly – view 2



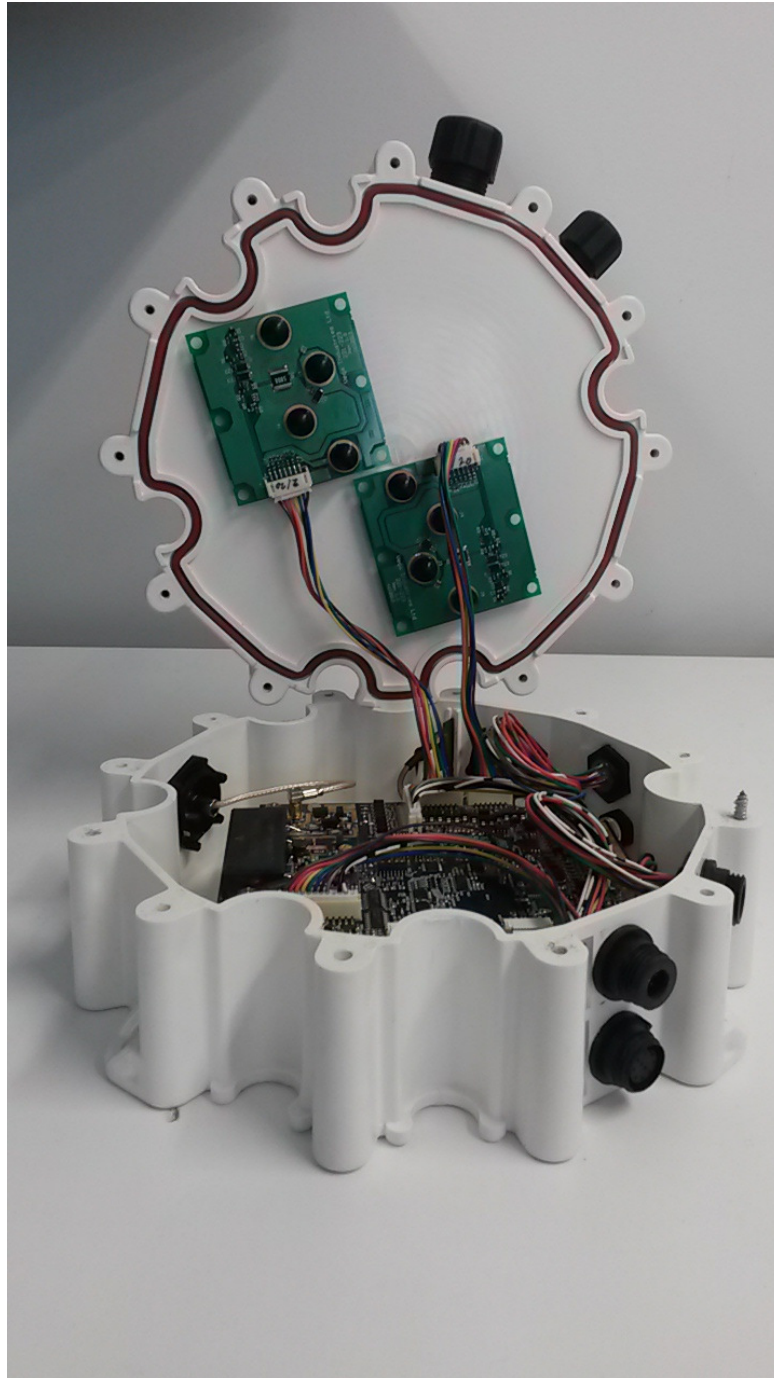
VegaAIS Extended I/O Assembly – view 3



Current Sensor boards fitted to current sensor enclosure



Current Sensor screw terminals in current sensor enclosure



Current sensor internal connections