

Shepherd H<sup>2</sup>S Monitoring System  
H<sup>2</sup>S Base Board Assembly  
Users Manual

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**A. H2S Base Head Unit Assembly Specifications**

Model Name: H<sup>2</sup>S Base Head Unit Assembly  
 Operating Frequency: 432.999893 MHz  
 Channel Bandwidth: 40KHz  
 Channel Spacing: 200KHz  
 Modulation format: 2-FSK  
 Duty Cycle: 8.4% in 100msec window  
 Crystal Frequencies: Micro 32.768KHz Radio Reference 27.000MHz  
 Antenna Type: Reverse SMA Connector +5dBi Whip Magnetic Mount  
 Antenna Model: YUE-CZ-507, 10MHz BW, Vertical Polarization  
[http://www.yueyoung.com/pro\\_display.asp?prono=103&baseclass=101](http://www.yueyoung.com/pro_display.asp?prono=103&baseclass=101)

**B. Regulatory Agency Considerations****C. Agency Identification Numbers**

Compliance with the appropriate regulatory agencies is essential in the deployment of all transceiver devices. LDARtools is in the process of obtaining modular approval for this RF product such that an OEM need only meet a few basic requirements in order to utilize their end product under this approval.

Corresponding agency identification numbers are listed below:

<b>H2S Base Part Number</b>	<b>US/FCC</b>	<b>CAN/IC</b>
Shepherd H <sup>2</sup> S Base Board	ZJ2-BASE001	9851A-BASE001

**D. Fcc/Ic Requirements For Modular Approval**

Any changes or modifications to the Shepherd Base Head Unit Assembly printed circuit board could void the user's authority to operate the equipment. Operation of an unapproved antenna could void the user's authority to operate the equipment.

**E. Warnings**

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

This device is intended for use under the following conditions:

- The transmitter module may not be co-located