V.A.D.R. Box

NOVELLUS
engineering services

Description:

The VADR device is an autonomous flight recorder that collects data. It is designed with the ability to remotely access a wide variety of tools/calibration devices with a secure connection. This is used for automated testing and calibration development. This system has a real time clock that can automatically wake up itself and calibration tools for executing data recordings on selected time increments. This real time clock control is powered using internal batteries that prevent current draw from the vehicle's batteries during the off cycles. This system also has the ability to automatically upload recorded data to network servers. After uploading, the device will either turn off the calibration tools and shut down or keep collecting data for a specified time. Customization options include: automation, memory, storage, connectivity, and GPS tracking.

Basic Operation:

The VADR uses software calibration tools to define the data that is being recorded and start/stop triggers. The start/stop triggers are used to wake-up and shut down the VADR box and the software calibration tools for data collection. The device has a wide variety of scripting capabilities that include start/stop time, sleep intervals, cycle intervals, etc. Initial test can be started with a manual remote trigger. This device is compatible with a wide variety of data acquisition systems such as, but not limited to, ATI & ETAS. Capabilities include remote headless automation through scripting, custom services and standard APIs. The system is compatible with ethernet and/or USB based tools. The device has the capability to automatically upload the recorded data to a user-specified network and location. The VADR box allows remote global access to data acquisition systems via Wi-Fi connectivity. The device will allow single and/or multiple simultaneous remote access views of the live data acquisition system for group analysis. The standard internal battery can supply the system for up to 36hrs on one charge. Additional external batteries can be used to increase the overall run time.

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Signal Specification:

Signal	Minimum	Maximum
Operating Voltage	+12 VDC	+24 VDC
Power Consumption*		28 W
Operational Temperature	-40ºC	+85ºC

*Low Standby Current Draw

Electrical Specifications:

Standard	Optional/Compatible*
i3, i5, and i7 Processor Options (prices vary)*	GPS
Windows 10 OS	4G/5G Compatible
Integrated Graphics	Touchscreen/HUD
Memory size: RAM 16GBs (prices vary per size)*	Memory size: Up to 64GBs
Storage: 1 TB SSD (prices vary per size)*	Storage: Up to 8 TBs (SSD M.2)
Bluetooth	
Intel® Wi-Fi 6 AX201	

***contact us for exact prices on the extra options**

Control Switches for Batteries:

Internal Battery	Charge IB/EB Input	External Battery [EB]
Up is ON, Down		Up is ON, Down is
Status or Truth Table of Functionality		
OFF	VADR OFF, Charging IB	OFF
ON	VADR ON, Charging IB	OFF
ON	VADR ON, IB & EB	ON
OFF	VADR ON, EB	ON

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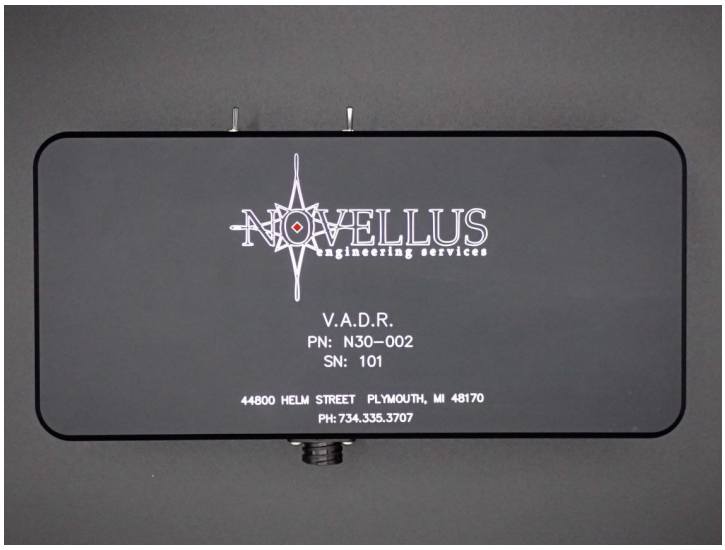
Dimensions LxWxH: (264x151x53)mm



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