



# Remote Monitoring Unit

AV-RMU



The **AV-RMU** is a connectivity device that allows products without internal telemetry hardware to still be able to communicate with overarching control and monitoring systems.

## Key Features:

- Enables data transfer and communication via a SATCOM interface.
- Integrates Avlite products into the Star2M platform via the Iridium satellite network.
- Low and high current options.
- Standalone mechanical assembly suitable for pole or wall mounting.



## Communication Enabling Device

Data transfer and bi-directional communication is enabled using the RMU for control and monitoring or asset management.

## SATCOM Availability for Non-Telemetry Devices

RMU provides the bridging solution to connect assets to Star2M via the Iridium satellite network.

## General Purpose Inputs and Outputs

Supplied as standard, RMU supports a minimum of four discrete IOs (2 Input, 2 Output) for setting up alarms or monitoring.

## Serial Communication Interface

Transmits the battery voltage, load and solar charge information of connected lanterns or power supplies for asset monitoring.

## Alarm Configuration

Current and voltage sensors can be enabled to transmit data to Star2M for daily updates on asset health or initiate alarms for investigation and action.

The RMU can be pole or wall mounted for installation convenience.



AV-RMU\_DATA\_EN\_V1.1

## AV-RMU

## DC

## Electrical Characteristics

|                       |                 |                   |
|-----------------------|-----------------|-------------------|
| Input Voltage         | 12 - 48 VDC     |                   |
| Operating Temperature | -40 to 55°C     |                   |
| Max Rated Load        | Low Current: 3A | High Current: 12A |
| Max Rated Charge      | Low Current: 3A | High Current: 12A |

## Power Consumption

|         |       |
|---------|-------|
| Peak    | 8.66W |
| Average | 0.07W |

## Interfaces

|                        |                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard               | <ul style="list-style-type: none"> <li>Serial Communication Interface (cable included)</li> <li>Battery Voltage Monitoring</li> <li>Solar Charge Monitoring</li> <li>Load monitoring</li> <li>Discrete IO via General Purpose Input/Outputs (2 Input / 2 Output)</li> <li>Satellite Communication</li> </ul> |
| Control and Monitoring | Star2M                                                                                                                                                                                                                                                                                                       |

## Physical Characteristics

|                    |                                            |
|--------------------|--------------------------------------------|
| Body Material      | White, ASA UL94HB                          |
| Height (mm/inches) |                                            |
| • Enclosure        | 64.92 / 2.56                               |
| • SATCOM Antenna   | 36.50 / 1.44                               |
| Width (mm/inches)  |                                            |
| • Enclosure        | 280 / 11.02                                |
| • SATCOM Antenna   | 78 / 3.07                                  |
| Depth (mm/inches)  |                                            |
| • Enclosure        | 200 / 7.87 (excluding mounting bracket)    |
| • SATCOM Antenna   | 78 / 3.07                                  |
| Mass (kg/lbs)      |                                            |
| • Enclosure        | 1.559 / 3.437 (excluding mounting bracket) |
| • SATCOM Antenna   | 0.152 / 0.336 (Antenna + Cable)            |
| Service Life       | 12+ years                                  |

## Environmental Standards

|           |                           |
|-----------|---------------------------|
| Shock     | MIL-STD-202G, method 213B |
| Vibration | MIL-STD-202G, method 204D |
| Humidity  | 0 to 90%                  |

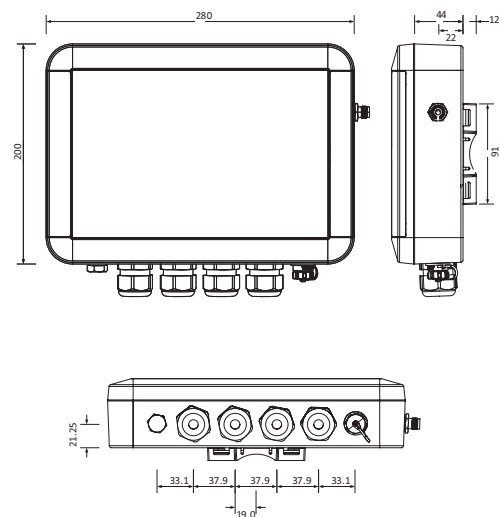
## Compliance

|                     |                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------|
| CE                  | EN 301489-1/17/19/20/52<br>EN 301908-1, EN 300328, EN 301441,<br>EN 303413, EN 62311<br>EN 61000-6-2: 2019, EN 61000-6-4: 2020 |
| FCC (North America) | FCC Part 15B /ICES 003                                                                                                         |
| Quality Assurance   | ISO9001:2015                                                                                                                   |
| Protection Rating   | IP67                                                                                                                           |

## Other

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Trademarks           | Avlite® is a registered trademark of Avlite Systems.<br>Star2M® is a registered trademark of Sealite Pty Ltd |
| Warranty *           | 3 years                                                                                                      |
| Terms and Conditions | Warranty Terms and Conditions available on<br><a href="http://www.avlite.com">www.avlite.com</a>             |

## Technical Illustrations



## Ordering This Product

AV-RMU-[XX]



## 1 Product Name

## 2 Option Configuration

00 SAT, Low Current  
01 SAT, High Current



Want to monitor, maintain, manage and control your assets? [Click here](#)



\* Specifications subject to change or variation without notice  
\* Subject to standard terms and conditions  
^ Refer to the Avlite website under the warranty section