

# GLOBAL SATELLITE ASSET TRACKER

**ADVANCED TRACKING & ANALYTICS - ANYWHERE**

The ONYX is an extremely small GPS Satellite tracker that tracks mobile assets with seamless coverage globally. Small size, optional integrated power source, robust design and ease of mounting are key to a quick installation and successful operation. The Iridium satellite constellation with 66 satellites in Low Earth Orbit (LEO) and truly global coverage provide low-latency two-way communication with the ONYX.

ONYX is compatible with the XeosOnline™ monitoring software, providing data analytics & monitoring functions for all applications. XeosOnline™ provides street map positioning, alarm notifications for a variety of triggers and conditions, and over the air command & control of the ONYX. Utilize the user configurable Input/Output to retrieve data from external sensors/devices and/or trigger alarms – all from the other side of the globe.

## KEY FEATURES:

- » **Small Design**
- » **Lower power for longer battery life**
- » **Easy to use**
- » **Multiple configurations available**
- » **Integrated rechargeable battery pack (optional)**
- » **Integrated antennas**
- » **Two-way global communication via Iridium satellite**
- » **User Configurable I/O and over the air programming**
- » **Compatible with Xeos Online™ and other server based applications**
- » **AES256 Encryption**

The flexible design of the ONYX allows for a wide variety of applications. Use the default settings for standard operations or maximize power management for long deployments. Customize alarm modes and sensor management. Ease of use and extensive functionality in a miniature package.



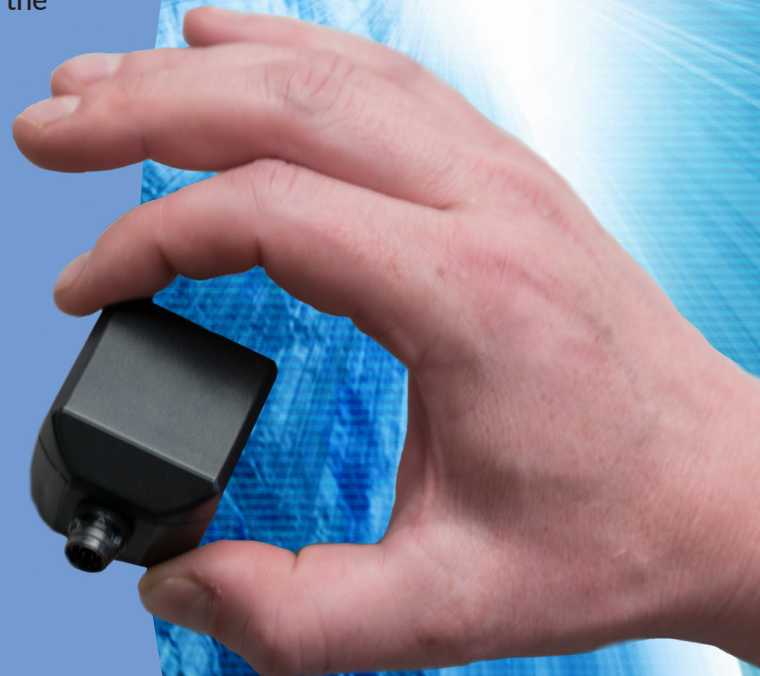
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# ONYX



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## TECHNICAL SPECIFICATIONS\*



**ONYX**



**ONYX  
OEM- STACK-  
NO ENCLOSURE**



**ONYX-I**



**ONYX-  
M2**



**ONYX-  
WB**



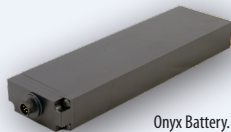
**ONYX-  
OEM FLAT**



**ONYX-R**

|                                   |   |                      |                                      |   |   |                      |   |
|-----------------------------------|---|----------------------|--------------------------------------|---|---|----------------------|---|
| <b>CONNECTOR</b>                  | Hirose 6 pin, HR-30 Series, External Power Source, I/O Port | Header               | None                                 | Chogori 6 pin, IP-67, External Power Source, I/O Port | Chogori 6 pin, IP-67, External Power Source, I/O Port | Header               | Hirose 6 pin, HR-30 Series, External Power Source, I/O Port |
| <b>VOLTAGE</b>                    | External 7 - 32V  | External 7 - 32V     | Internal 12V 4 x CR123A Li Batteries | External 7 - 32V                                      | External 7 - 32V                                      | External 7 - 24V     | Internal 3.6V Li Rechargeable Battery                       |
| <b>IDLE CURRENT</b>               | <50µA   | <50µA                | <50µA                                | <50µA   | <50µA   | <50µA                | <100µA  |
| <b>GPS CURRENT (30s Avg.)</b>     | 15mA  | 15mA                 | 15mA                                 | 15mA  | 15mA  | 15mA                 | 40mA  |
| <b>IRIDIUM CURRENT (30s Avg.)</b> | 50mA  | 50mA                 | 50mA                                 | 50mA  | 50mA  | 50mA                 | 70mA  |
| <b>DIMENSIONS</b>                 | 1.87" L x 1.44" W x 1.10" H                                 | 1.23" x 1.30" x .75" | 4.89" x 1.71" x 1"                   | 1.85" x 1.7" x 1.11                                   | 2.04" x 1.7" (2.9" w/ Tabs) x 1.1"                    | 2.62" x 1.24" x .50" | 4.73" x 1.7" x 1.11"  |
| <b>IP Ratings</b>                 | IP65  | N/A                  | IP68                                 | IP67  | IP67  | N/A                  | IP67  |

### COMMON TO ALL ONYX MODELS:



Onyx Battery.  
Common to all models.

- Communications** 9603 Iridium Transceiver
- GPS Receiver** Xeos Technologies 48 Channel GPS (SiRFStarV)
- Antenna** Integrated Iridium and GPS Antenna
- Environmental** Operating Temperature: -20° C to +60° C



\*Specifications subject to change without notice.

