GLOBAL SATELLITE ASSET TRACKER

The ONYX is an extremely compact 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.

The ONYX is compatible with the XeosOnline™ monitoring software, providing data analytics & monitoring functions for all applications. XeosOnline™ provides 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:

- » **Global tracking with real time updates**
- » **Compact Design**
- » **Long battery life**
- » **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

TECHNICAL SPECIFICATIONS*

	ONYX STACK	ONYX STACK LOW VOLTAGE	ONYX FLAT LOW VOLTAGE	ONYX	ONYX-I	ONYX-M2	ONYX-WB	ONYX-R
CONNECTOR	Header	Header	Header	Hirose 6 pin, HR-30 Series, External Power Source, I/O Port	None	Chogori 6 pin, IP-67, External Power Source, I/O Port	Chogori 6 pin, IP-67, External Power Source, I/O Port	Hirose 6 pin, HR-30 Series, External Power Source, I/O Port
VOLTAGE	External 7 - 32 V	External 3.3 - 5.5 V	External 2.4 - 5.5 V	External 7 - 32 V	Internal 12 V 4 x CR123A Li Batteries	External 7 - 32 V	External 7 - 32 V	Internal 3.6 V Li Rechargeable Battery
IDLE CURRENT	<50 μA	<100 μA	<100 μA	<50 μA	<50 μA	<50 μA	<50 μA	<100 μA
GPS CURRENT (30s Avg.)	15 mA	40 mA	40 mA	15mA	15 mA	15 mA	15 mA	40 mA
IRIDIUM CURRENT (30s Avg.)	50mA	120 mA	120 mA	50 mA	50 mA	50 mA	50 mA	120 mA
DIMENSIONS	1.23" x 1.30" x .75"	1.40" x 1.40" x .79"	2.62" x 1.24" x .50"	1.87" x 1.44" x 1.10"	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"	4.73" x 1.7" x 1.11"
IP Ratings	N/A	N/A	N/A	IP65	IP68	IP67	IP67	IP67

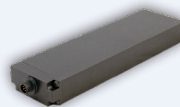## COMMON TO ALL ONYX MODELS:

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

Onyx Battery and cables available.

Xeos Online is a web-hosted application that facilitates the management of all your Onyx devices. A single source for viewing your beacon's messages, locations, and alerts. A command center for altering device settings, notification and alarm management, data collection, and analysis.

*Specifications subject to change without notice.