

WL-11001 UNDERWATER GPS DEVELOPER KIT



DESCRIPTION

The Underwater GPS Developer Kit includes everything you need to get started with robust underwater positioning. The Master-D1 calculates the position of any Locator relative to the position of the Receivers. Combined with the integrated GPS and IMU, it will provide the absolute GPS position of the Locator.

With a small physical footprint, the kit is easily integrated into even the most compact equipment. It can be used retro-fitted to your underwater vehicle, or integrated through your umbilical.

The Underwater GPS Developer Kit is running an internal webserver exposing a GUI and an API. Just power up and start exploring the underwater world!

BENEFITS

- Extremely small footprint makes for easy handling and operation.
- Highly robust operation in areas with reflections (shallow water, around installations etc.)
- Fully IP67 protected housing and connectors.

CONTENTS

- 1x WL-21008 Master-D1
- 4x WL-21005-P010 Receiver-D1
(10m cable and Binder Series-770 connector)
- 1x WL-21016 Locator-D1 or
1x WL-21009 Locator-A1
(selectable cable length and connector)
- 1x 3 meter Ethernet cable
(Bulgin Series-6000 (IP68) to Shielded RJ45)
- 1x 3 meter power cable
(Bulgin Series-6000 (IP68) to open end)
- 1x Housing
(Pelican Case #1200)

FEATURES

- Webserver exposing a user-friendly GUI
- Software API for integration purposes
- Acoustic Position SW
- Global Position SW
- GPS (With integrated antenna. External antenna supported)
- IMU (Compass/Orientation)

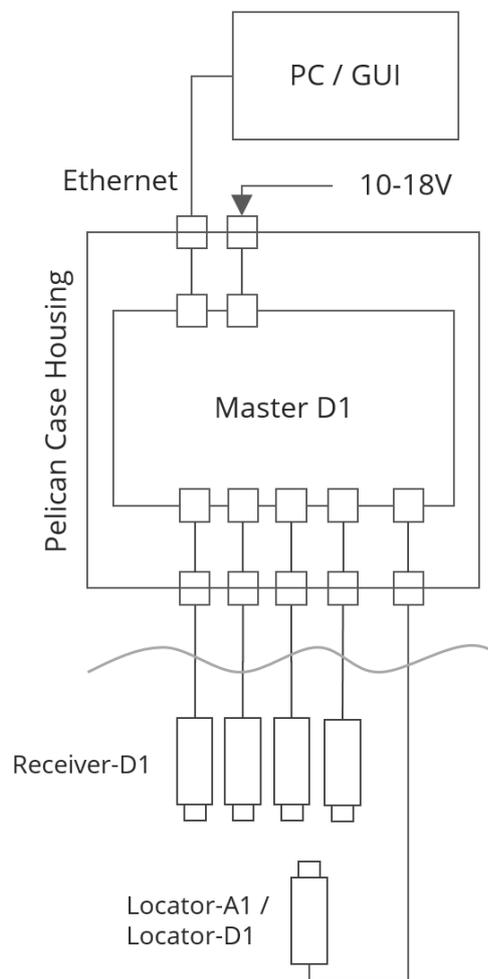
MECHANICAL

| | |
|-----------------------|-----------------|
| Length | : 270 mm |
| Width | : 246 mm |
| Height | : 124 mm |
| Operating temperature | : -10 to +60 °C |

ELECTRICAL

| | |
|---------------|-----------|
| Input voltage | : 10-18 V |
| Input current | : 400 mA |

BLOCK DIAGRAM



INTERFACES

| | |
|---------------------|---|
| D1 Interfaces | : 5x (Typically 4 Receiver-D1 and 1 Locator-D1) |
| D1 connector | : Binder Series-770 (IP67 plugged and unplugged) |
| D1 connector: | : JST BM06B-GHS-TBT |
| A1 Interfaces | : 1x |
| A1 connector | : Binder Series-770 (IP67 plugged and unplugged) |
| Ethernet interfaces | : 1x |
| Ethernet connector | : Bulgin Series-6000 (IP68 incl sealing cap) |
| Power connector | : Bulgin Series-6000 (IP68 incl sealing cap) |

ACOUSTIC

| | |
|-------|-------------|
| Range | : 100 meter |
|-------|-------------|

APPROVALS

RoHS compliant
CE

ORDERING GUIDE

| | |
|---------------------------------|---|
| WL-11001 - A 001 N 010 B | |
| PART NUMBER | WL-11001 - A 001 N 010 B |
| LOCATOR TYPE | A Locator-A1 D Locator-D1 |
| LOCATOR CABLE LENGTH | 001 1 m 050 50 m 100 100 m 300 300 m |
| LOCATOR CONNECTOR | N None B Binder Series-770 |
| RECEIVER CABLE LENGTH | 010 10 m 050 50 m 100 100 m |
| RECEIVER CONNECTOR | N None B Binder Series-770 |

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