

Subsea (submersible 6000 m) compact 2.4GHz Wi-Fi radio transceiver

Application:

Our compact, standing alone Wi-Fi transceiver with antenna provides high speed (**up to 135 Mbps**) wireless link to your asset: AUV, ROV, ASV/USV, drone or RC – you name it.

Features:

- High power, long range;
- Waterproof for **subsea** and **outdoor**/indoor use, open face pressure rated connectors;
- Portable design, easy maintenance, replace and upgrade;
- POE (power over Ethernet) to transceiver, no losses on long RF cables;
- Modes: bridge, access point or repeater. Wi-Fi transceivers in bridge mode are transparent for your network and passing all traffic seamlessly;
- Zero downtime due to hardware failure;
- Transceivers can be encapsulated into housing of your choice: Acrylic, Delrin, PEEK, Aluminum, Stainless steel, or Titanium.



Subsea radio transceiver with antenna and cable. Antenna, radio transceiver housing and electronics are designed for harsh environment, wide temperature, and humidity range.

Radio, Data, Power parameters:

- Frequency: 2.4 GHz;
- Radio power: 28 dBm;
- Radio standards: IEEE 802.11 b/g/n /AirMax;
- Ethernet 10/100 Base-T;
- Radio range (vessel to vehicle, omnidirectional): 500 meters;
- Supply power: 7W, 12-24 VDC, 300mA@24VDC or 600mA@12VDC

SUBSEA Wi-Fi module (in pressure housing rated up to 6000 m depth)

- Subsea WiFi transceiver dimensions:
 - Length: 162 mm; OD: 58 mm.
- Subsea WiFi transceiver cables and connectors:
 - 1x Connector for power and Ethernet (POE): MCBH-8M or by client specification;
 - 1x Connector to WiFi antenna: Teledyne D.G.O'Brien 110 series, Subconn HF50CX series, Rampart RP5 series, penetrator;
 - Inline cable 3 m (twisted pairs) to asset: PUR jacket, MCIL8F – MCIL8M with locking sleeves.
- Subsea 3 dBi Wi-Fi omnidirectional antenna (depth rated 6000 m):
 - Length: 180mm; OD 24 mm.
- Subsea 3 dBi WiFi antenna cables and connectors:
 - Antenna connector: Teledyne D.G.O'Brien 110 series, Subconn HF50CX series, Rampart RP5 series;
 - Coaxial cable, 50 Ohm impedance: PUR jacket, Length by request.

AP Subsea Inc.

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Phone: +1 604 363 38 62

Office address:

302-11295, Pazarena Place, Maple Ridge, BC,
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SURFACE Wi-Fi module (in housing rated to IP68)

- Surface Wi-Fi transceiver dimensions (in cylindrical housing depth rated up to 200 m):
 - Length 162 mm; OD: 58 mm.
- Surface Wi-Fi transceiver cables and connectors:
 - 1x Connector for power and Ethernet (POE): MCBH-8M or penetrator crimped in RJ-45 3 meters whip or by client specification;
 - 1x Connector to Wi-Fi antenna: penetrator crimped in N-type connector or by client specification;
 - All weather junction box with two ports to connect Ethernet deck cable with surface Wi-Fi transceiver, coupler.
- Surface 5 dBi Wi-Fi omnidirectional antenna (IP68 ingress protection):
 - Length: 300mm; OD: 20mm;
 - Antenna connector: N-type;
 - Coaxial cable, 50 Ohm impedance: PUR jacket, Length by request.

For the best performance we recommend using two wireless transceivers from AP Subsea.

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