



ShuttlePilot Buoy

The **ShuttlePilot Buoy** (SPB) is installed on a Single Point Mooring (or similar). Optionally combines with other equipment (e.g. ShuttlePilot Portable) to complete a **ShuttlePilot** buoy system for buoy approaches.

The SPB:

- Calculates accurate position for the buoy
- Transmits this data to ShuttlePilot Remote or other equipment on board the approaching vessel

Components: ShuttlePilot Buoy

GPS antenna
UHF transceiver
DC Power Supply

Enclosure: Minimum 470mm wide x 380mm high x 150mm deep
Customer specific (depending on local regulations)

Weight: installation specific

Power 12-24Vdc

Requirements: 2.0Amp

SPECIFICATIONS

Receiver Type: GPS L1
Optional GPS L2
Optional GLONASS L1/L2
Optional Beidou
Optional Galileo. Optional QZSS

Channels: 372 channels
Update Rate: 1Hz
Position Accuracy 0.3m (SBAS/DGPS)
0.08m (Atlas)
0.01m (RTK)

Cold Start: <60s

Warm start: <30s

Satellite Reacquisition: <1s

Antenna Input Impedance: 50Ω

Warm start <20s

Heading Fix <10s

Satellite Reacquisition <1s

Antenna Input Impedance 50Ω

UHF Radio

Frequency Range: 410 - 480 MHz

(Other frequency bands available)

Occupied Bandwidth: 6.25, 12.5

Modulation Type: GMSK

Range: Typically 10nm or greater (dependant on installation)

Sensitivity: -112dBm @ 9600bps link rate

Output Power: 100mW - 5W

External interfaces:

GPS Antennas TNCF

UHF Antenna N-type F

Power Terminal block
(Internal via IP 67 gland)

Environmental

Operating Temperature: -32°C to +74°C (-25°F to +165°F)

Storage Temperature: -40°C to +85°C (-40°F to +185°F)

Humidity: 95% non-condensing

Shock and Vibration: EP 455

EMC: Part 15, Subpart B, Class B, CISPR22, CE

OPTIONS AVAILABLE:

ATLAS

MF BEACON DGPS

UHF RTK



Navicom Dynamics

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sales@navicomdynamics.com | **www.navicomdynamics.com** | **Call: +64 99155330**

Office Address: 2 Parkhead Place, Albany, Auckland, NZ 0632. Postal Address: PO Box 302 193, North Harbour, Auckland, NZ 0751.

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