



# ShuttlePilot Portable

The **ShuttlePilot Portable** (SPP) is part of the ShuttlePilot system. It is carried on-board the vessel being manoeuvred. It combines with the **ShuttlePilot Remote** (SPR) and **ShuttlePilot Display** (SPD) to complete the installation for that vessel.

The **ShuttlePilot Portable**:

- Calculates accurate position, heading and ROT for the vessel on which it is deployed
- Transmits this data to the ShuttlePilot Fixed on the other vessel and to any ShuttlePilot Remote in the vicinity

<b>Components:</b>	<b>ShuttlePilot Portable</b> (in ruggedized case) Master GPS antenna, Secondary GPS antenna, UHF antenna Hot-swappable Li-Ion batteries
<b>Rugged Case:</b>	IP67 waterproof plastic case (with lid closed)
<b>External</b>	
<b>Dimensions:</b>	503mm wide x 406mm deep x 193 mm high
<b>Weight:</b>	9kg approx
<b>Operational time:</b>	> 24 hours (continuous with secondary set of batteries)

## SPECIFICATIONS

Receiver Type:	GPS L1 GLONASS L1/L2 BEIDOU
Channels:	744 channels
Update Rate:	1Hz
SBAS Tracking	3 Channel. Parallel L Band single frequency
Position Accuracy	0.25m (SBAS/DGPS) 0.08m (Atlas) 0.01m (RTK)
Heading Accuracy:	± 0.02°
Rate of Turn Accuracy:	± 0.5°/min
Cold Start:	< 60s
Warm start:	< 20s
Heading Fix:	< 20s
Aiding devices:	Gyro & Tilt sensors
Satellite Reacquisition:	<1s

## 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	2 x GPS socket
UHF Antenna	1 x UHF socket
Power connector	dc power in port

## Environmental

Operating Temperature:	0°C to +55°C (32°F to +131°F)
Storage Temperature:	-40°C to +85°C (-40°F to +185°F) (batteries removed)
Humidity:	95% non-condensing
Shock and Vibration:	EP 455
EMC:	FCC Part 15, Subpart B, Class B, CISPR22, CE

*Note: Data sheets for GPS and UHF Antennae can be provided on request.*



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