



ShuttlePilot Fixed

The **ShuttlePilot Fixed** (SPF) is installed on the permanently-sited vessel (usually FPSO or similar).

Combined with a **ShuttlePilot Portable** (SPP), a **ShuttlePilot Remote** (SPR) and **ShuttlePilot Display** (SPD) to complete a full **ShuttlePilot** system for Offshore Oil & Gas operations like moorings, approaches and transfers.

The ShuttlePilot Fixed:

- Calculates accurate position, heading and ROT for the vessel on which it is fitted
- Where needed, transmits this data to the SPR on the other vessel
- Receives similar data from the other vessel
- Optionally, sends both sets of data, to on-board LAN network
- Optionally receives remote Emergency Shutdown signal from ShuttlePilot Remote

Components	ShuttlePilot Fixed (SPF) UHF antenna AC/DC Power Supply
Case	425mm wide x 128mm High Rack Mounted Case (19 inch x 3U)
Weight	8kg
Power	110V or 230 VAC (Customer to specify)
Requirements	45Hz to 65Hz 1.5Amp UPS option (available on request)

SPECIFICATIONS

Receiver Type	GPS L1. GLONASS L1 GPS L2. GLONASS 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	± 0.01°
ROT Accuracy	± 0.5°/min
Cold Start	< 60s
Warm start	< 20s
Heading Fix	< 20s
Satellite Reacquisition	<1s
Aiding devices:	Gyro & Tilt sensors
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 (dependent on installation)
Sensitivity	-112dBm @ 9600bps link rate
Output Power	100mW - 5W

External interfaces

Serial Ports	Full duplex RS232 (x2), Full duplex RS485 (x2)
LAN (Option)	RJ45
ESD Contacts (Option)	NO/NC volt-free (contact rating 0.5A, 12V)
GPS Antennas	TNC (F) x2
UHF Antenna	N-type (F)
Mains Power	3-pin IEC

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	FCC Part 15, Subpart B, Class B, CISPR22, CE



Navicom Dynamics
Innovate | Integrate | Communicate

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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