



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

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|---------------------|--|
| 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

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|-------------------------|---|
| 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

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|--------------------|---|
| 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

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|-----------------------|--|
| 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

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|-----------------------|--|
| 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 |



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