

OSPREE Tanker Portable Unit - BHU

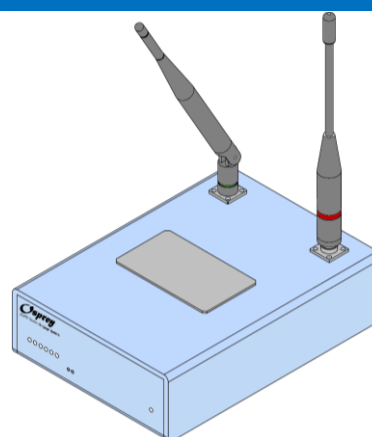
COMPONENT PART SPECIFICATION

DESCRIPTION: BRIDGE HOUSE UNIT (BHU)

FORM FACTOR: 140mmW x 60mmH x 200mmD

PART No: OSP189-001-017

APPLICATION: OSPREE Tanker Portable Unit



DESCRIPTION

OSP189-001-017 is an industrial telecommunication interface providing a data telemetry bridge between an external UHF radio network and an internal WLAN network. The unit forms part of the Ocean Technical Systems OSPREE Tanker Portable Unit linking the operator Windows PC display (BPC) located on the tanker bridge to the external DGPS units on the tanker bridge wings (BWUs). The unit is known as a BRIDGE HOUSE UNIT (BHU).

PSU SPECIFICATION

Input AC Voltage: 90 - 264 Vac
Input Frequency: 47 - 63 Hz
Input Current: 0.8 Amps-rms max @ 120Vac
 0.5 Amps-rms max @ 240Vac
Output DC Voltage: 12VDC
DC Load: 2.5A maximum
DC Ripple: 120mV P-P maximum
DC Connector: Barrel Type 2.1 x 5.5 x 9.5mm (positive centre)
Efficiency: > 83.5% average
Emissions: FCC Class B / EN55022 Class B

ENVIRONMENTAL

Temperature: 0°C - 40°C (operating)
 -25°C - 75°C (Storage)
 20 - 90% Humidity

SAFETY STANDARD



UHF SPECIFICATION

Transceiver: Frequency Range: 403 - 473 Mhz
 Tuning Range: 70 Mhz
 Channel Spacing: 12.5 kHz / 25 kHz
 Emission Designator: 10K7F1D (12.5kHz) / 20K3F1D (25kHz)
Transmitter: Carrier Power: 100 / 500 / 1000mW
 Carrier Stability: < 1.5 dB
Receiver: Sensitivity: -114dBm (12.5kHz) / -111dBm (25kHz)
 Adjacent Channel: > 60 dB
 Intermodulation: > 60 dB
Data Modem: Over air data rate: 9600bps (12.5kHz) / 19200bps (25kHz)

ENVIRONMENTAL

Temperature: 0°C - 55°C (operating)
 -25°C - 75°C (Storage)
 20 - 90% Humidity

STANDARD

EN 300 113-2 (Annex A)
 EN 60950 (Safety)
 EN 301 489 (EMC)
 FCC CFR47 part 90

WLAN SPECIFICATION

Transceiver: Frequency Range: 2412 - 2462 Mhz
 Transmit Power: +28dBm
 Receive Sensitivity: -97dBm
 Range: upto 200m
WLAN: Standards: 802.11b/g/n
 Protocol: Access Point

ENVIRONMENTAL

Temperature: 0°C - 70°C (operating)
 20 - 90% Humidity

STANDARD

FCC Part 15.247 / IC RS210 / ETSI300-019-1.4

CONTACT

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