

Entel

HT Series Marine

Business Critical Communications



Commercial Grade



MED Approved



ATEX II2 G Ex ib IIC
ATEX II2 G Ex ib IIA



Ex ib IIA T4

Tough | IP68
RATING
Submersible
Dependable



ENTEL HT SERIES Marine

Commercial Marine Portable Radios

Rugged, designed for gloved hand use and with exceptionally loud audio, Entel's HT Commercial Marine portable radios are specifically designed to withstand the everyday rigours of the Maritime workplace.

With over 20-Years' experience exceeding the demands of the Maritime Workplace, Entel offers the most complete and established range of Commercial Marine portable radios available. Versions include: VHF, UHF, GMDSS, ATIS & Intrinsically Safe (ATEX IIA, IIC & IECEX).

Why Entel HT Commercial Marine portables?

Superior voice quality and volume

IP68 (2 metres depth for 4 hours) submersible

MIL-STD 810/C/D/E&F standard robust construction

High capacity (2000 mAh) Li-Ion batteries as standard

Established & proven portables based on over 20-Years' experience

2 Metres, 4 Hours Submersible

Conforming to IP68 standard, the HT Series 2.0 offers the highest submersibility rating of any manufacturer. This unique Series protects against corrosion, withstanding total immersion in water to a depth of 2 metres for 4 hours to protect against the likely hazards encountered in any field of operation.

Intrinsically Safe

ATEX Approved IIC - The HT900 range of ATEX certified portables meet IIC T4.

ATEX Approved IIA - For those users not restricted to the IIC 1 watt regulatory classification.

IECEX Approval - The HT500 range of intrinsically safe certified portables are suitable for those users who do not need to comply with the European ATEX standard.

Superior Audio

Using the latest compander noise reduction technology, Entel's Commercial Marine portables deliver loud & crisp audio no matter what environment you are in.

Commercial Grade Construction

Exceeding MIL-STD 810C/D/E/F rating, the HT Series 2.0 is designed to withstand shock, vibration, dust and moisture, ensuring a tough enduring performance and many years of trouble free use, even in the most hostile environments.

Intelligent Li-Ion Battery

Entel's Lithium-Ion Batteries provide the following key advantages:

Extended Talk Time – The 2000mAh capacity of Entel's Lithium-Ion batteries is up-to double that of other makes, therefore ensuring maximum talk-time.

Li-Ion Chemistry – Entel's Li-Ion batteries are not prone to the dreaded memory effect that Ni-Cad and Ni-MH battery packs suffer from. This ensures that you always have a good charge every time you take the battery from its charger.

GMDSS MED

Entel's HT649 GMDSS portable is MED certified and carries the essential Wheel Mark logo. Designed for those requiring a full featured and outstandingly tough GMDSS portable, the HT649 is one of the most advanced MED certified GMDSS portables available.






The HT649 is available in two packages:

Pack 1 includes HT649 radio & Primary (emergency) battery.

Pack 2 as Pack 1 plus Secondary (rechargeable) battery and charger.

Model Selection



| | | REGION | ENTRY | LCD UHF | LCD VHF | LCD VHF ATIS | LCD GMDSS |
|---|------------------------|--------|--------|---------|-------------|--------------|-------------|
|  NOT INTRINSICALLY SAFE | VHF Marine INT/USA/CAN | EU | HT642 | — | HT644 | HT644 ATIS | HT649 |
| | Marine UHF | EU | HT782M | HT783M | — | — | — |
| | Marine UHF | NON EU | HT782E | HT783E | — | — | — |
|  ATEX IIC INTRINSICALLY SAFE | VHF Marine INT/USA/CAN | EU | HT942 | — | HT944 | HT944 ATIS | — |
| | Marine UHF | EU | HT982 | HT983 | — | — | — |
|  ATEX IIA INTRINSICALLY SAFE | VHF Marine INT/USA/CAN | EU | HT842 | — | HT844 | HT844 ATIS | — |
| | Marine UHF | EU | HT882 | HT883 | — | — | — |
|  IECEx INTRINSICALLY SAFE | VHF Marine INT/USA/CAN | NON EU | HT542 | — | HT544 | — | — |
| | Marine UHF | NON EU | HT582 | HT583 | — | — | — |
|  GMDSS APPROVED | VHF Marine | EU | — | — | — | — | HT649 |
| IP68 2 METRES FOR 4 HOURS SUBMERSIBLE | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| MIL-STD 810 C/D/E/F | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| HIGH-CAPACITY LI-ION BATTERY | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| FLASH UPGRADABLE (TO ADD NEW FEATURES) | | | ✓ | ✓ | ✓* | ✓ | ✓ |
| CHANNEL CAPACITY | | | 16 | 255 | INT/USA/CAN | INT/USA/CAN | INT/USA/CAN |
| PRIVATE CHANNELS | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| LOW BATTERY WARNING | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| CHANNEL NAMING | | | — | ✓ | — | ✓ | — |
| VOX (HANDS FREE OPERATION) | | | ✓ | ✓ | ✓ | ✓ | ✓ |

*HT644 not flash upgradable

Technical Specification

| General Specification | |
|----------------------------------|--|
| Frequency range VHF | 156 to 163.275MHz (INT, USA, CAN) |
| Frequency range UHF | 400 to 470MHz |
| Frequency range UHF UP Band | 450 to 520MHz |
| Channel Spacing | VHF – 25KHz UHF – 25KHz / 12.5KHz |
| Operating Voltage | 7.4V |
| Battery | Li-Ion 2000mAh (1800mAh ATEX & IECEx) |
| Weight (with battery) | 277g |
| Dimensions* | 130mm (h) x 59.5mm (w) x 37mm (d) |
| Frequency Stability | 2.5ppm |
| Operating Temperature | -20 to +55°C |
| Dust and Liquid Intrusion | IP68 submersible 2 metres for 4 hours |
| Drop, Packing, Vibration & Shock | MIL-STD 810 C/D/E/F |

* Dimensions are based upon a radio with an attached battery, excluding knobs, antenna and protrusions.

For a full & detailed specification, please visit our website

| Transmitter | |
|------------------------------|--------------------------------|
| Power Output HT6 Series | 5W / 1W |
| Power Output HT7 Series | 2W / 1W - non EU 4W / 1W |
| Power Output HT982, HT983 | 1W |
| Power Output HT882, HT883 | 2W / 1W |
| Power Output HT844, HT944 | 4W / 1W |
| Power Output HT5 Series | 2W / 1W |
| Receiver | |
| Sensitivity | Better than -118dBm 12dB Sinad |
| Rated Audio Output | 1W |
| Intermodulation | -42dBm |
| Adjacent Channel Selectivity | 60 / 70 (12.5 / 25KHz) |
| Spurious Response Rejection | -37dBm |
| Spurious Radiations | 2.0nW/20nW <1GHz/>1GHz |

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Accessories

Supplied package includes:

2000mAh Li-Ion battery pack, charger, spring loaded belt clip, high efficiency antenna & quick start user guide (ATEX models are supplied with an 1800mAh 7.4v Li-Ion Battery)

HT649 GMDSS can be supplied in different package combinations, please consult your dealer.



CSBHT ■
Six-way charger



CMP750 ■
CMP950 ▲
Heavy duty speaker mic submersible



EA12/750 ■
EA12/950 ▲
Earpiece microphone



EA15/750 ■
EA15/950 ▲
Covert earpiece / microphone



CXR16/750 ■
CXR16/950 ▲
Throat mic. Bone conductive



CXR5/750 ■
CXR5/950 ▲
Skull mic. Bone conductive



CXE19/750 ■
Bone conductive both transmit & receive



CHP750HS ■
CHP950HS ▲
Hard hat eardefender, submersible PTT

Submersible products are represented with a water droplet.

All specifications are subject to change without notice. For the complete range of accessories please visit our website.

- Not intrinsically safe.
- ▲ Intrinsically safe.