

## TT-3064A Capsat® Maritime Telephone



### Features

- Extremely compact, low-cost Maritime Satellite Telephone with worldwide voice, fax, data and e-mail connectivity.
- Includes handset, fax/2 wire RJ-11 phone port and Hayes-compatible 2.4 kbps data port, each with its own phone number.
- World's smallest automatic 2-way maritime satellite tracking antenna.
- Secure, personalized operation with the built-in SIM card reader.
- Simple to install below deck with separate handset and cradle for convenience.
- Optional picture transmission software available.

### Description

The TT-3064A Capsat® Maritime Telephone gives you genuine independence and global connectivity for voice, fax, data and e-mail - anytime, to any destination in the world.

Using the TT-3064A for voice communication is as simple as using an ordinary cell-phone. And to send a fax or e-mail, all you have to do is to connect to the phone socket on the fax or the PC data port.

The TT-3064A will also serve all of your maritime communication needs with coverage in almost all coastal waters around the world and on the high seas in the northern hemisphere.

The extremely small antenna and the compact design of

the below-deck transceiver mean that the TT-3064A is simple to install in a wide variety of vessels, from private yachts to large coasters.

Just 21 cm in diameter and 23 cm high, the 2-way tracking antenna is the smallest of its kind in the world and can be located up to 70 meters from the transceiver unit.

The transceiver offers a wide range of auxiliary port options such as a remote bell or ignition control of power-on.

Configuration options include a locked telephone number list and call logging.

## Specifications

**General Specifications:** Inmarsat Phone spot-beam operation. Meets or exceeds current and proposed specifications.

**Antenna:** Sensor stabilised platform with directional RHCP Antenna. No cable unwrap. Maximum pointing error +/-10 deg.

**Ship Motions:** Roll +/-25 deg, Pitch +/-15 deg, Yaw +/-8 deg, surge 0.2g, Sway +/-0.2g, Heave +/-0.5g, Turning rate +/-12 deg/s 1 deg/sq-2, Headway 30 knots.

**C/T:** -17 dB/K minimum.

**EIRP:** 8-14 dBW in 2 dB steps. Antenna Cable: TNC/TNC female, max. cable loss 15 dB at L-Band, 1.8 ohm at DC.

**Operating Frequencies:** Receive: 1525.0-1559.0 MHz, Transmit: 1626.5-1660.5 MHz. Channel Spacing: 1.25 kHz.

**Rx-Modulation:** 5.6 kbps O-QPSK SCPC (voice/fax/data), 6 kbps BPSK TDM.

**Tx-Modulation:** 5.6 kbps O-QPSK SCPC (voice/fax/data), 3 kbps BPSK TDMA.

**Voice:** 4.8 kbps AMBE (3.6 kbps voice), 1.2 kbps FEC.

**Async. Data Rate:** Max. 2.4 kbps.

**Phone Interface:** 2-wire 600 ohm CCITT Rec. G.473, standard DTMF telephones, RJ-11 jack.

**Fax Interface:** 2-wire 600 ohm CCITT Rec. G.473, T.30 Group-III Fax, max. 2.4 kbps, RJ-11 jack.

**Data Interface:** Serial EIA standard RS-232E, Hayes compatible, max. 19.2 kbps, DB-9 female connector.

**Printer Interface:** Serial EIA standard RS-232E, max. 19.2 kbps, DB-9 female connector.

**Hands free Microphone:** ø2.5 mm connector.

**Hands free Speaker:** 32 ohm. ø3.5 mm connector.

**Ignition Controlled Power On:** Opto-isolated input. PTR screw connector.

**External Ringer:** RS410-type-N open collector output. PTR screw connector.

**Mute Output:** RS410-type-N open collector output. PTR screw connector.

**SIM Card:** GSM like operation, ISO-7816.

**Power Consumption:** Tx mode: 40W (typ) Rx mode: 20W (typ), maximum: 70W.

**Power Supply:** 10.5-32 Vdc floating.

**Ambient temperature:** -25°C - 50°C operating, -40°C - 80°C storage.

**Relative humidity:** 95% non-condensing at 40°C.

**Spray (EME):** Solid droplets from any direction.

**Icing (EME):** Up to 25 mm of ice (no operation).

**Precipitation (EME):** Up to 100 mm/hour.

**Wind (EME):** 100 knots (normal operation).

**Vibration (EME):** 4-10 Hz 2.54 mm, 10-15 Hz 0.76 mm, 15-25 Hz 0.40 mm, 25-33 Hz 0.23 mm.

**Shock:** Half sine, 20g/11 ms.

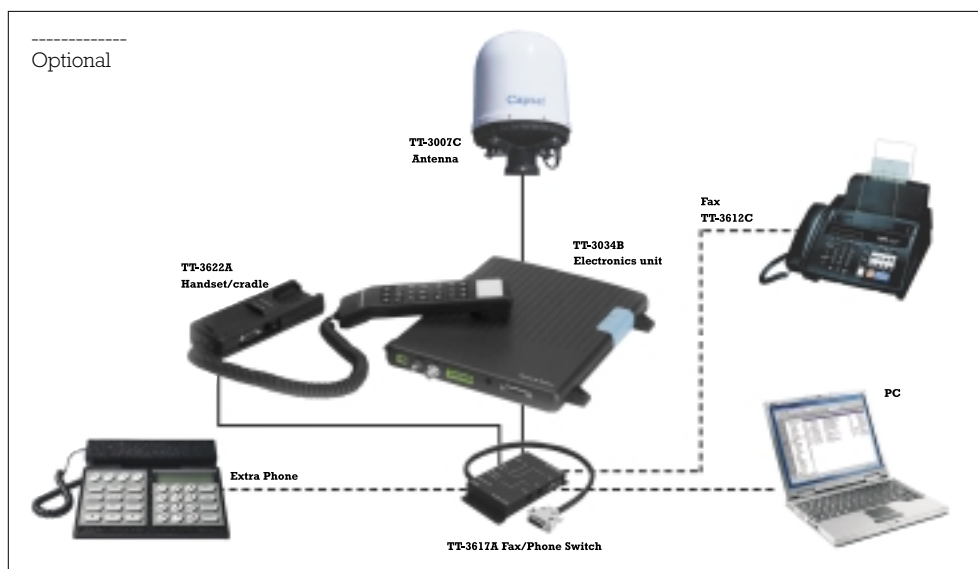
**Dimensions and Weight: Electronics Unit (TT-3034B):** H x W x D, 25 x 268 x 211 mm., 1.3 kg.

**Maritime Stabilised Antenna (TT-3007C):** Ø x H, 210 x 240 mm, 2.2 kg. incl. FEU and connector.

**Cradle for the handset (TT-3622A):** H x W x D, 160 x 61 x 27 mm, 0.15 kg.

**Handset (TT-3620C):** H x W x D, 200 x 52 x 33 mm, 0.25 kg.

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