

TT-3062A Capsat® Rod Telephone



Features

- Extremely compact and power conserving in-vehicle satellite telephone for world-wide transfer of your telephone calls, fax prints and data/e-mail messages.
- Includes handset and fax interface as well as 2-wire phone port and Hayes comp. 2.4 kbps data port, each with individual telephone number.
- Simple and reliable omnidirectional antenna, with adjustable elevation angle.
- Secure and tailored operation via built-in SIM card reader.
- Easy to install, with separate dashboard unit.
- Full support for hands-free operation.
- Optional STU-IIB/STU-III and picture transmission software packages.

Description

The TT-3062A Capsat® Rod Telephone will turn your vehicle into a high quality communication centre. From the most remote areas it will meet your needs for interconnection to any destination in the world, whether for high quality telephone calls, fax-prints, data transfer or e-mail messages. Designed in a compact and ruggedised all aluminium case, the TT-3062A will provide reliable connection and extend your mobility from the urban "GSM" areas to true global coverage. Due to the very compact design of the main electronics unit and low power rod antenna, the Capsat® Rod Telephone is easy to install in a large variety of vehicles, ranging from longhaul trucks to off-roaders. The TT-3062A can be operated from the handset just like a regular GSM telephone, or from an auxiliary phone or fax machine connected to the 2-wire

DTMF interface. For data transmission you can utilise the built-in Hayes compatible data modem. The low power rod antenna offers high reliability due to a ruggedised design with no moving parts. Together with the antenna front-end, it can be located up to 70 meters from the main electronics unit. The Capsat® Rod Telephone fully supports hands-free operation, to ensure safe driving while talking. The flexible design of the dashboard unit allows easy installation, as well as easy access to both fax and data connections. The main electronics unit has interfaces for extra ringer, external speaker, and radio controlled power on/off. A dust-proof cover protects the SIM cardholder and allows for easy removal of the SIM card preventing unauthorised use.

Specifications

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

Antenna: Azimuth symmetrical RHCP Antenna. Adjustable elevation setting. Elevation beam width approx. 15 degrees.

Vehicle Motion: Induced acceleration 0.5g. Velocity 110 km/h.

G/T: -17 dB K minimum.

EIRP: 8-14 dBW in 2 dB steps.

Antenna Cable: TNC/TNC female, max. cable length 3 meters front-end to antenna.

Front-end Cable: TNC/TNC female, max. cable loss 10 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, T30 Group-III Fax, 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: \varnothing 2.5 mm connector.

Hands-free Speaker: 8 Ohm. \varnothing 3.5 mm connector.

Ignition Input: Opto-isolated input. PTR screw connector.

Extra 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 Supply: 10.5-32Vdc floating Ambient temperature: -25°C to 55°C operating, -40°C to 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).

Rain(EME): Up to 50 mm hour.

Wind(EME): Relatively 200km/h (normal operation).

Vibration: Random 5-20 Hz 0.02 g²/Hz, 20-150 Hz -3dB/Oct. (1.05g rms) (operational).

Shock: Half sine, 20g/11 ms. (survival)

Dimensions and Weight:

TT-3034C Electronics Unit: H x W x D, 25 mm x 268 mm x 211 mm., 1.3 kg.

TT-3010A Front-end: H x W x D, 188 mm x 124 mm x 31 mm, 0.95 kg.

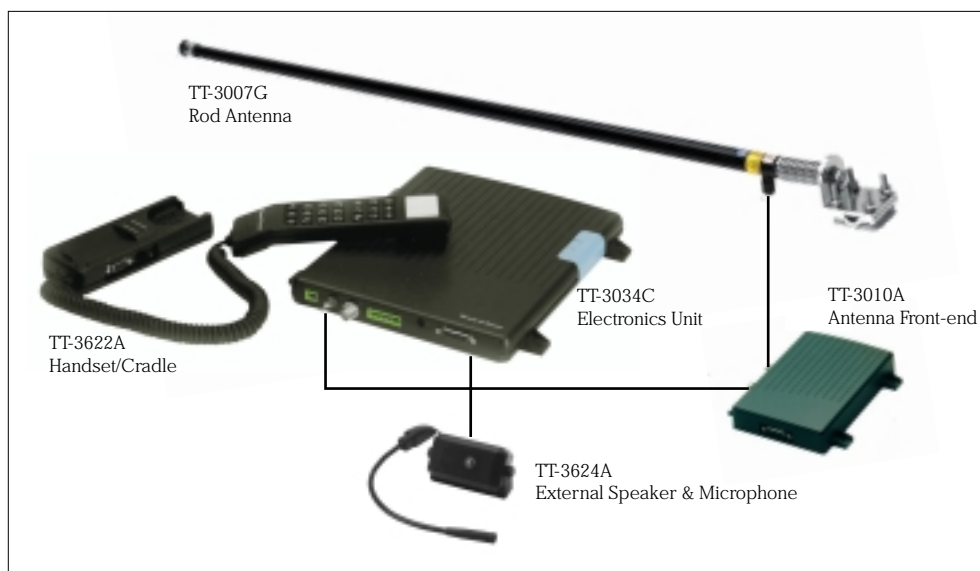
TT-3007G Rod antenna, \varnothing x H, 22 mm x 930 mm, 0.63 kg.

TT-3622A Handset Cradle: H x W x D, 160 mm x 61 mm x 27 mm, 0.15 kg.

TT-3620B Handset: H x W x D, 200 mm x 52 mm x 33 mm, 0.25 kg.

EMC: ETSI 300339 (mobile equipment)

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