

TT-3082A The Capsat® Mobile Messenger



Features

- High speed data terminal with transmission rates up to 64 kbps, while on the move.
- Fully automatic tracking antenna with different mounting options.
- 10 – 32Vdc power supply, transceiver and handset cradle, and cables for complete in-vehicle installation supplied as a standard.
- Easy set-up and customization of terminal with the included configuration software.
- Standard Mini-M voice, fax and data operation at 2.4 kbps.
- Multiple interfaces.
- Optional STUIIB/STU-III service in addition to other secure systems.
- Mobile Packet Data Service (MPDS).

Description

The Capsat® Messenger is one of the leading Global Area Network (GAN)/M4 terminals offering you a 64 kbps connectivity anywhere in the world.

From the convenience and safety of your moving vehicle you are now able to communicate with ISDN speed anywhere in the world. Communication will be maintained at speeds up to 110 km per hour, and re-established immediately after passing under a bridge or a tunnel.

The antenna can be mounted with sturdy magnets or on a rack that you place on the roof of your car.

The Mobile Messenger vehicle kit consists of a mounting cradle for the transceiver and handset unit, a universal DC/DC power supply for both transceiver and antenna and a fully automatic tracking antenna.

With the handset cradle it will be possible to remove the handset from the transceiver unit, and have instant voice communication in the front of the vehicle.

The Capsat® Messenger Vehicle kit is fully compatible with the other Capsat® Messenger systems, allowing you to use the same transceiver unit with the portable and fixed antennas.

The high-speed data rate of the Capsat® Messenger and the Euro ISDN interface makes it possible to browse the Internet, connect to your Local or Wide Area Network, transmit store and forward video, send pictures and high quality voice.

All of this is made possible by plug and play applications, which are easily connected to the Mobile Messenger.

It is also possible to use the Inmarsat MPDS service. When using this service you are charged per transferred Mbit and not per minute.

Specifications

General Specifications:

Meets or exceeds current and proposed Inmarsat specifications for Inmarsat-phone spot-beam operation.

Antenna: Sensor stabilised platform with directional RHCP antenna. No cable unwrap.

Voice: 4.8 Kbps AMBE, 64 kbps broadcast.

Data Rates: 2.4 kbps, 56 kbps and 64 kbps.

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

Fax Interface: 2-wire 600Ω CCITT Rec. G.473, T.30 Groups III Fax, RJ-11 modular jack.

Data Interface: Serial EIA compatible standard RS-232E, built-in Hayes compatible modem, up to 115 kbps, DB-9 female connector.

Euro ISDN Interface: ISDN NT1 S/T bus, ITU-T I.430, ISO 8877 compliant RJ 45 connector.

Audio Input: Phono connector, broadcast quality voice. Line input: Max. 2.0 V RMS. Nominal 141 mV RMS. Phone input: Max. 0.2 V RMS, Nominal 14.1 mV RMS.

Audio Output: Headphone stereo jack, >48Ω (1.4 V RMS), Ø 3.5mm.

SIM Card Interface: Standard plug for user PID card, ISO-7816

PCMCIA Interface: Type II, 3.3 volt, max 300 mA

USB Interface: USB slave interface.

Antenna Connectors:

TT-3038A: 50Ω QLA/female

TT-3008E: 50Ω TNC/female

Power Supply: 9-32V input range, 15V output for TT-3038A, 35V output for TT-3008E

Power Consumption: Rx Idle < 0.1 W from battery, < 0.8 W from DC-Input. Tx active: Max. 103W

Battery Capacity (NiMH):

2h broadcast quality voice, 4h Mini-M voice, 45 min. high speed data/fax or 2h Mini-M data/fax. 70h standby.

Ambient Temperature: -25°C to +55°C operating, -40°C to +80°C storage (Power on).

Relative Humidity: IME: 95% non-condensing at +40°C.

Spray: Solid droplets from any direction.

Ice Survival: Up to 25mm of ice.

Rain: Up to 50mm/h.

Wind: 200Km/h relative wind speed (operation).

Vibration Survival: Random 5-20 Hz 0.05g²/Hz, 20-150 Hz -3dB/Oct. (1.7g RMS)

Mechanical Shock: 20g/11 ms half-sine.

Vehicle Motion: Turning rate: 40 deg/s. Turning acceleration: 50 deg/s². Induced acceleration: 0.5g. Turning acceleration: 20 deg/s.

Coverage limits: 5-80 deg, 360 deg azimuth. (No cable unwrap) Pitch/Roll: 5 deg past coverage limits.

G/T: -7 dB/K minimum.

EIRP: Mini-M: 8-14 dBW in 2dB steps.

HSD: 19-25 dBW in 2dB steps.

Antenna Cable: QLA male/TNC male. Max. cable loss 8 dB at 1.66 GHz and 0.5Ω at DC.

Rx Freq. Band: 1525.0 - 1559.0 MHz.

Tx Freq. Band: 1626.5 - 1660.5 MHz.

Channel Spacing: 1.25 kHz.

Rx Modulation: 5.6 kbps O-QPSK, SCPC (voice, data, fax).

6 kbps BPSK - TDM, 134.4 kbps 16 QAM, SCPC (data).

Tx Modulation: 5.6 kbps O-QPSK, SCPC (voice, data, fax) 3 kbps BPSK - TDMA, 134.4 kbps 16 QAM, SCPC (data).

Dimension of Electronics Unit: H x W x D: 43mm x 205mm x 200 mm.

Weight of Electronics Unit: 1.8 kg (including battery and handset).

Dimension of 3008E Antenna: H x D: 400mm x 650mm.

Weight of 3008E Antenna: 12 Kg.

Dimension of 3038A transceiver cradle: H x W x D: 55 mm x 231 mm x 206 mm.

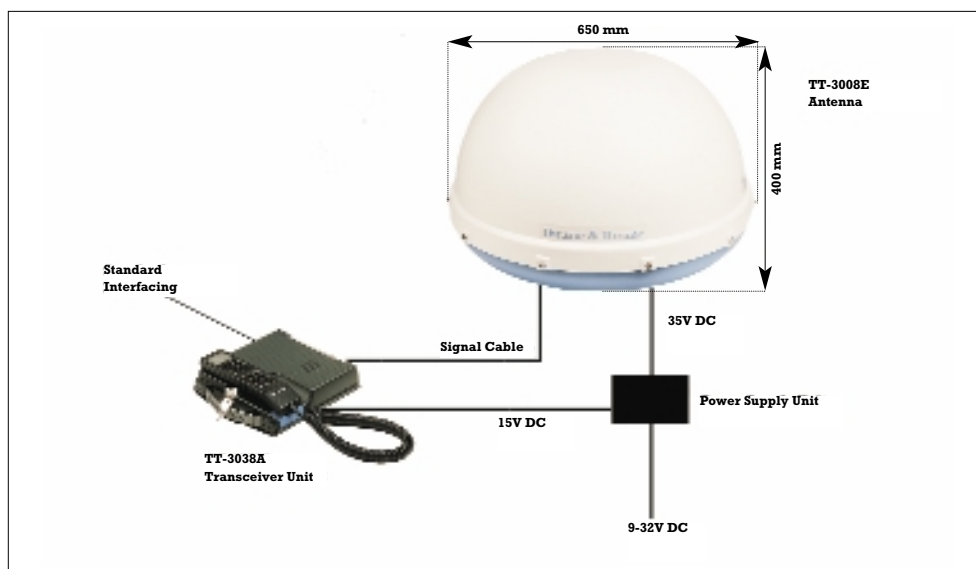
Weight of 3038A transceiver cradle: 0.37 Kg

Dimension of Power supply TT-3682N: H x W x D: 164mm x 285mm x 50mm.

Weight of Power supply TT-3682N: 1350grams.

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Distributor: Speeka srl, Via C. Pisacane 42, Milano 20129, Italy, T 39 02 29514666 - www.speeka.com - info@speeka.com