

## TT-3080A

### Capsat® Messenger with Small Dish Antenna



#### Features

- Smallest mobile ISDN solution on the market.
- Ideal for the user who is constantly on the move and needs a solution that is easy to set up.
- Antenna and transceiver is integrated into the same frame for ease of use and portability.
- The TT-3008D can be positioned up to 200 meters away from the transceiver.
- Easy pointing of antenna by use of built in compass, audible signal strength and clear elevation indication.
- The TT-3008D antenna is delivered in a separate and sturdy carry bag

#### Description

The Capsat Messenger Terminal combined with the robust TT-3008D antenna is the perfect choice for a combined fixed and mobile solution at a remote site. It offers both portability and an easy to set-up fixed solution.

The 64 kbps mobile ISDN connection gives the user access to Internet, high quality voice calls, fax transfers, video conferences and many other applications.

In addition, you also have access to the inexpensive low speed Mini-M services for voice, fax and data.

Should you require a 128 kbps solution then this is made possible by combining two M4 terminals to the ISDN interfaces of your laptop.

You will be using the Global Area Network (GAN) service offered by Inmarsat which covers both your high speed and low speed data needs.

The Small Dish antenna is just one of the many antennas available for the Thrane & Thrane M4. All of the antennas are easily interchangeable with the same transceiver.

The antenna has a robust frame mount construction, that also gives the option of installing it on a pole or tripod.

The transceiver is placed in a bracket inside the antenna making it one unit that only weighs 5.2 kg.

## Specifications

### General Specifications:

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

**Antenna:** Directional patch array antenna. Manually adjustable elevation setting.

**Voice:** 4.8 Kbps AMBE, 64 kbps broadcast and 64 kbps.

**Async 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-T1.430, 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 3.5 mm.

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

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

**USB Interface:** USB slave interface.

**Antenna Connectors:** 50Ω TNC

**Power Supply:** 9.5 V – 20 VDC

**Power Consumption:** Rx Idle <0.1W, Tx active 35W average at high speed data operation (Max 55W)

**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.

**Standard AC-Adapter:** 90-264 VAC, 47-63 Hz, 100 W.

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

**Ambient Temperature Antenna:** -35°C to +55°C operating, -40°C to +80°C storage.

**Relative Humidity:** IME: 95% non-condensing at +40°C, EME 100% condensing.

**Relative Humidity Antenna:** 100%

**Spray:** Solid droplets from any direction.

**Ice Survival:** Up to 25mm of ice.

**Rain:** Up to 50mm/h.

**Wind:** 180Km/h relative wind speed (operation).

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

**Mechanical Shock:** 20g/11 ms half-sine (2 x 3 per perpendicular axis)

**G/T:** -7 dB/K minimum.

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

**HSD:** 19-25 dBW in 2 dB 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-TDMA, 134.4 kbps 16 QAM, SCPS (data)

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

**Dimension of Transceiver:** H x W x D: 43mm x 205mm x 200 mm.

**Weight of Transceiver:** 1.7 kg (including battery and handset).

**Dimension of 3008D Antenna:** H x W x D: 397mm x 397mm x 75mm.

**Dimension of Antenna Deployed:** 397mm x 397mm

**Weight of 3008D Antenna:** 3.1 kg

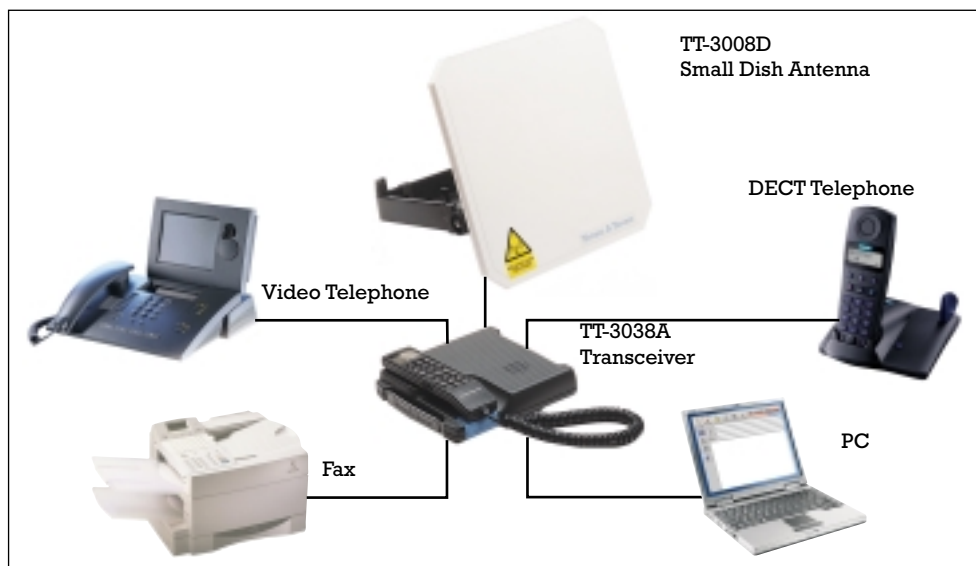
**Dimension of 3038A Transceiver Cradle:** H x W x D: 55mm x 231mm x 206mm.

**Weight of 3038A Transceiver cradle:** 0.37 Kg

### Mount Configurations:

Surface standard with fold-out support. Pole mount standard for 35-80 mm diameter poles. Tripod standard interface.

■ Our products are under continuous research and development. Any information may therefore be changed without prior notice. Capsat is a registered trademark of Thrane & Thrane A/S, Denmark



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