

## TT-3060A Capsat® Mobile Telephone



### Features

- Light, compact and power conserving mobile telephone for world-wide transfer of your telephone calls, fax prints and data/e-mail messages.
- Built-in batteries and charger for true portable use, with 48 hours standby time and 2.5 hours talk time.
- Handset, fax/2-wire RJ-11 phone port and Hayes comp. 2.4 kbps data port each with their own call ID (4 in total).
- Removable true water tight and sealed antenna, with acoustic signal strength indicator.
- Secure and tailored operation via built-in SIM card reader.
- Optional STU-IIB/STU-III and picture transmission software packages.
- All magnesium lap-top sized, with a weight of 2.2 kg.

### Description

The TT-3060A Capsat Mobile Telephone gives you true independent and global inter-connection to any destination in the world. It handles both high quality telephone calls, fax prints, data transfer or e-mail messages.

Designed in a ruggedised all magnesium case, the TT-3060A will fulfil all your portable and fixed needs for a mobile telephone, extending your mobility from "GSM" coverage to true global coverage.

The telephone occupies less than half of your normal brief-case, has low weight and low power consumption.

It is your very best choice for any mobile requirement, being a travelling businessman or within rescue activities, news gathering, construction sites communications etc.

The TT-3060A is operated from the handset just like a normal GSM telephone. From the 2-wire DTMF phone interface a fax machine can be connected. For data connectivity you have the data port with the Hayes AT command sets.

The small and discrete flat panel antenna is sealed for true outdoor operation. It may be relocated up to 70 metres from the telephone. An optional antenna bracket allows you a semi-fix antenna installation during "office" hours. The antenna is easy to align with the help of the built-in acoustic signal strength indicator.

The TT-3060A has a built-in NiCd battery for 48 hours standby time and approx. 2.5 hours talk time. Included is also a 9-18Vdc charger, a fast-charger and a small external ac adapter. Normal operation of the telephone is also possible during charging.

## Specifications

### General Specifications:

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

### Antenna:

Directional RHCP Patch Array with +/- 15 deg. beam width

**G/T:** -17 dB/K minimum

**EIRP:** 11-17 dBW in 2 dB steps

### Antenna Cable:

SMB/SMB male, max. cable loss 10 dB at L-Band, 0.7 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

### SIM Card:

GSM like operation. ISO-7816

### Power Supply:

10.5-18.5Vdc, typical 380mW listen  
mode, 8W talk mode, 20W in fax/data  
mode

### Solar Panel Interface:

15-25V dc input

### Battery Capacity:

Typical listen time 48 hours, typical  
talk time 150 min. and fax/data time  
55 min.

### Lightweight AC Adapter:

90-265 Vac, 40-70 Hz, 5-10V, charge  
time 5-10 hours

### Fast charge AC Adapter:

90-265 Vac, 40-70 Hz, 55W, charge  
time approx. 2 hours

### Ambient temperature:

-25°C to 55°C operating  
-40°C to 80°C storage

### Relative humidity:

95% non-condensing at 40°C

### Vibration Survival:

Random 5-20 Hz 0.05 g<sup>2</sup>/Hz, 20-150 Hz  
-3dB/Oct. (1.7g rms)

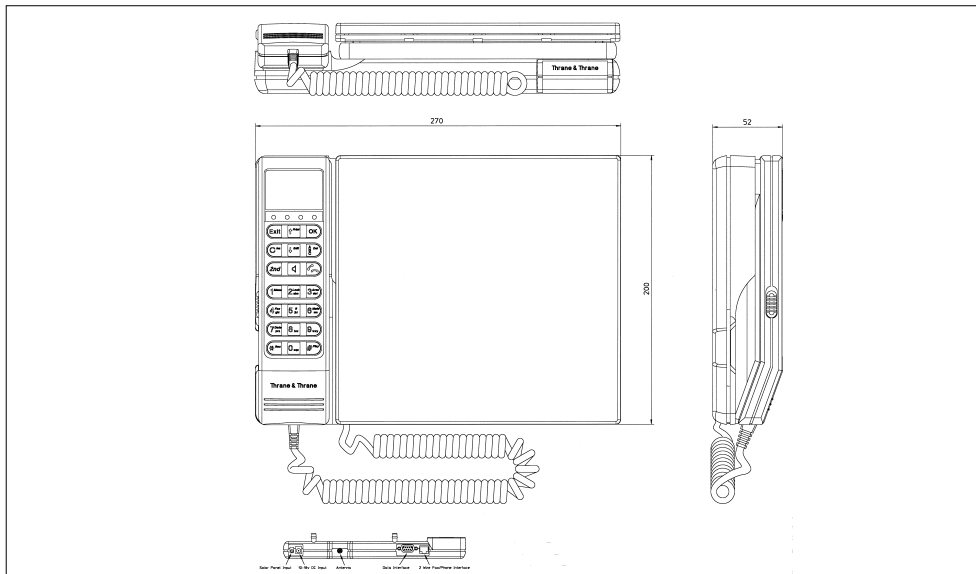
### Shock:

Half sine, 20g/11ms

### Dimensions and Weight:

H x W x D, 52 mm x 270 mm x 200  
mm, 2.2 kg (incl. handset, battery pack  
and antenna)

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



SSD, Burlingham House  
Hewett Road, Gapton Hall  
Gt. Yarmouth, Norfolk  
NR31 0NN U.K

Phone +44 1493 603460  
Fax +44 1493 445909  
E-mail sales@ttdis.com  
www.ttdis.com