

# Capital Products & Review

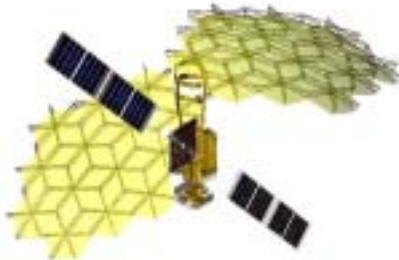
## A Handheld Terminal for S-Band Mobile Satellite Systems

FUJITSU developed the handheld type mobile phone which can communicate through a S-band mobile satellite (ETS- as an example) under guidance of Communications Research Laboratory. The following are the features.

It is under reconstruction so that data etc. can be treated and they are under evaluation now. Although the bit rate is low, the conventional satellite earth station is the thing developed with the different concept.

### Features

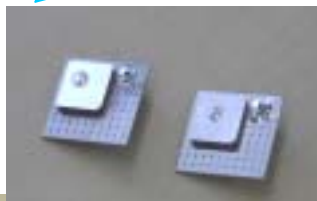
- Frequency 2.65 GHz (TX) / 2.5GHz (RX)
- Antennas TX & RX ceramic patch antennas accommodate inside terminal body. (Peak Gain = 3 dBi, Beam width = 90 degrees)
- Transmit power 1W
- Air interface 8kbps BPSK-SCPC with FEC (R=1/2)
- Voice Codec PSI-CELP
- Power Supply NiH2 rechargeable battery (UM3 x 6 or UM4 x 6)
- Transmitting Time 0.5 hours or more in case of UM-3
- Weight & Capacity 266 grams & 264cc (Including TX & RX Antenna, without battery)



ETS- as an example is the future mobile communication experiment satellite which will launch in the fiscal year 2005.



Ceramic patch antennas inside terminal body



Handheld Type Mobile Phone



PDA Type Mobile Phone