A Handheld Terminal for S-Band Mobile Satellite Systems

FUJITSU was 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.

- 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.