BRINGING THE WORLD CLOSER
Instant Communication—Regardless of Distance, Time and Weather

TCS-9200 Transportable Communication System

TCS-lite (TCS-9200)
Transportable Communications System

When communications are critical and the environment inhospitable, political leaders, news agencies, businessmen, governments, relief and emergency medical teams look to the one-suitcase TCS-lite multipurpose communications system.

The revolutionary TCS-lite provides all the communications features of its two and three suitcase competitors with a wide spectrum of peripheral equipment to allow the selection of the right computer, facsimile machine, telex or freeze frame video equipment to meet your requirements.

The TCS-lite can be set up in seconds in four easy steps:
◆ Open the suitcase
◆ Pop open the umbrella antenna and connect with a single cable
◆ Plug into any power source
◆ Place a call

The TCS-lite withstands harsh environments, operates in severe temperatures (-35°C to +65°C), and resists water.

IMMARSAT Global Coverage
The International Maritime Satellite Organization (INMARSAT), financed by the signatories of 65 member countries, operates a system of satellites in geostationary orbit over the Atlantic, Pacific and Indian oceans providing complete sea, land and air worldwide coverage that permits the TCS-lite to be operated any time and any place. There are 22 INMARSAT coastal earth stations operated by the signatories/PTT's of various countries that provide multiple, cost effective access to the international telephone network.

MICROELECTRONICS TECHNOLOGY INC.
Actual Examples of Communication Links

Terminal to Home/Office Link:
Terminal ↔ Satellite ↔ CES ↔ Home ↔ Office

Terminal to Terminal Link:
Terminal ↔ Satellite ↔ CES ↔ Terminal

Technical Specifications

**Suitcase**
- **Size**: 75 x 53.5 x 28cm (29.5 x 21 x 11 inches)
- **Weight**: 33.2kg (73 pounds)
- **Terminal Control Unit**: 22.25 x 31.75 x 7.6cm (8.75 x 12.5 x 3 inches)
- **Weight**: 2kg (4.4 pounds)

**Antenna**
- **Size, Diameter**: 1.2m (47.25 inches)
- **Weight**: 3kg (6.6 pounds)
- **Dish Gain**: 23.5 dBiC

**Power Requirements**
- **150-318VDC, 90-240VAC**, Single Phase, 40-440Hz,
  - 140 Watts Transmit, 80 Watts Idle

**Environmental**
- **Operating Temperature**: -35°C to + 65°C
- **Relative Humidity**: 95% maximum at 40°C
- **Precipitation**: 10cm/hour maximum
- **Vibration**: MIL STD 810 - Transportable Communications

**General**
- **Transmit Frequency Range**: 1636.5 to 1645.0 MHz (1.6365 to 1.6450 GHz)
- **Receive Frequency Range**: 1535.0 to 1543.5 MHz (1.5350 to 1.5435 GHz)
- **Gain-to-Noise Temperature Ratio (G/T)**: Better than -2 dB/K

**Voice Channel**
- **Modulation**: Frequency modulation (FM)
- **Band**: 300 to 3000 HZ
- **Carrier EIRP**: 36dBW, +1, -2 dB
- **Harmonic Output EIRP**: -23 dBW maximum, any frequency up to 18 GHz

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