

# M2SAT Portable Satellite Terminal



## Features and Capabilities

The TakeAway is a portable satellite terminal for use via the M2sat satellite system. The key features and capabilities are:

- Transmit and receive data rates up to 192 kbps (upgrade to 384 kbps planned in 2003).
- Lightweight terminal and antenna unit. Fits into air plane hand luggage size cases.
- Ruggedised design with shower proof outdoor antenna unit.
- Terminal deployment within 5 minutes.
- Easy operation using a keypad and display at the terminal or a PC/notebook with standard Web browser.
- Wide range of IP services, e.g. for LAN Interconnect, Streaming and Internet Access applications.
- Synchronous data services for transparent data applications.
- High Speed Internet and ISDN connectivity in occasional use and lease mode.
- Built-in IP router, 3-port Ethernet hub, DHCP- and Web server.
- Up to 4 official IP addresses per terminal.
- AC, DC and dual power supply options.
- Various transport case options including cabin size trolleys, flight cases and integrated terminal and application equipment cases.
- Custom tailored terminal and service configurations available on request.

## Terminal and Antenna Unit

The TakeAway satellite terminal consists of the M2sat Terminal Unit (MTU) and the M2sat Antenna Unit (MAU) as shown below.



### M2sat TakeAway Terminal

The MTU provides the interfaces to interconnect the application equipment and a keypad with display to control the terminal. The MAU is interconnected via a single coaxial cable (15 m standard length).



## Technical Data

### Data Rates

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|          |                |
|----------|----------------|
| Transmit | up to 192 kbps |
| Receive  | up to 192 kbps |

### Interfaces

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|             |                                                      |
|-------------|------------------------------------------------------|
| LAN / IP    | 3 Ethernet ports (10 Base-T, RJ-45 sockets)          |
| Synchronous | DC 37 pin connector female, DCE, RS-449 or V.11 mode |

### Terminal Control

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|         |                          |
|---------|--------------------------|
| Local   | Keypad with LCD display. |
| From PC | Web browser.             |

### RF Characteristics

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|                          |                     |
|--------------------------|---------------------|
| Transmit frequency range | 1626.0 – 1660.5 MHz |
| Receive frequency range  | 1524.5 – 1559.0 MHz |
| EIRP                     | 13 dBW max.         |

### Power Supply

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|              |                                                       |
|--------------|-------------------------------------------------------|
| Voltage      | 100 – 240 V AC 50/60 Hz                               |
| Consumption  | 90 W max. in transmit mode, 60 W max. in standby mode |
| DC option    | 12 or 24 V DC                                         |
| AC/DC option | 115 or 230 V AC 50/60 Hz and 12 or 24 V DC            |

### Environmental

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|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Temperature range | terminal unit 0° to +50° C<br>antenna unit –25° to +55° C |
| Humidity          | 95 % non-condensing                                       |

### Dimensions and Weight

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|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Terminal unit | 140 x 415 x 290 mm (HxWxD), approx. 6 kg (with AC power supply) |
| Antenna       | flat panel 400 x 400 mm, approx. 4 kg                           |

### Compliance

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|                |                      |
|----------------|----------------------|
| ETSI Standards | EN 301426, EN 301681 |
| EMC/EMI        | CE                   |