



M2sat services

M2sat service types:

- M2sat Lease Channels**
Lease Channels provide customers with a 192 kbps connection on a 7 x 24 hour basis. M2sat Lease Channels are available per Thuraya spotbeam for fixed period of time. Subject to availability it is possible to combine two Lease Channels. The M2sat.NET option enables the use of the Lease Channel with multiple TakeAway terminals.
- M2sat Occasional Use**
Via the M2sat booking centre, M2sat services are available on an "Occasional Use" basis. The booking procedure is comparable to the Occasional Use procedures for Ku-band capacity. The main advantage of this service type is the guaranteed availability of the requested broadband bandwidth to ensure the timely delivery of your data, audio or video material.

M2sat service portfolio

Occasional Use Service	Lease Channel Service	Terrestrial connectivity from M2sat Gateway
Data192 duplex transparent data duplex IP connection	Data192 duplex transparent data duplex IP connection	Multiplexed ISDN (standard) or Leased Line
Internet Access 192 duplex IP connection	Internet Access 192 duplex IP connection	IP over ISDN to Bremen and from there to Backbone for unrestricted Access
IP-Connect 192 duplex IP connection	Internet Access 384* duplex IP connection	IP over ISDN to Bremen and from there to Backbone
	IP-Connect 192 duplex IP connection	IP over ISDN or Leased line to destination network
	IP-Connect 384* duplex IP connection	IP over ISDN or Leased line to destination network

* 384 kbps services are only available using 2 combined M2sat Lease Channels

Government and Corporate Applications:

- Internet Access**
Simply connect a laptop or PC to the TakeAway terminal with a standard ethernet cable. Select the M2sat Internet Access 192 service and you have established a high speed public internet connection.
- IP Connections**
Connect your laptop or PC via ethernet to the TakeAway terminal and select the M2sat IP Connect 192 service to make a secure connection to your corporate intranet.
- Video Conferencing**
Commercially available videoconference equipment can be connected to the M2sat TakeAway terminal to establish a high quality videoconference connection e.g. with your headquarters.
- Video Surveillance**
Connect multiple video camera's via a standard video codec to the M2sat TakeAway terminal and monitor your corporate assets and installations remotely.
- Multi User Access Hub**
To provide voice, fax and data communication to a remote team, a multiplexer with the appropriate end user terminals attached can be connected to the M2sat TakeAway terminal.
- Secure communications and encryption**
M2sat provides transparent data and IP services. Customer with a need for secure communications can attach the appropriate encryption devices to the M2sat TakeAway.
- Closed User Groups**
Available as option on M2sat Lease Channels M2sat.NET allows customers to establish closed user groups with a shared use of the Lease Channel. Both time sharing and frequency sharing of Lease Channel are supported. For dedicated applications services up to 192 kbps can be custom made either symmetric or a-symmetric.

Where can I get M2sat ?

Broadband Satellite Communications requires the attention of real professionals. M2sat provides its services in close co-operation with selected broadband business partners. M2sat services are sold and supported by a dedicated network of established mobile satcom service providers and dealers throughout the world: partners able to provide you with all the customer support you need.

For full support contact our partner to the left besides or visit our web site to find the service provider best suited for you. <http://www.M2sat.com>

M2sat London, United Kingdom
e-mail: info@M2sat.com, web: <http://www.M2sat.com>

M2sat, the mobile broadband solution

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Where can I get M2sat?

The world spanning operations of multinational corporations and governmental organisations confront them with the challenge to manage their corporate assets and human resources regardless of their location. Reliable communications plays a central role in this. When operations are located in areas with no terrestrial wire alternatives satellite communications is the only option.

Flexibility and bandwidth on demand are thereby keywords in the current global environment and to meet these requirements M2sat has launched a portfolio of broadband mobile satellite services via the Thuraya satellite.

Using portable M2sat TakeAway® terminals M2sat provides remote corporate sites, field teams, remote staff or travelling corporate executives with the most advanced

broadband communications facilities like video conferencing, intra net access, high speed IP- and data connections or live video transmissions.



TakeAway terminal

About M2sat

FACTS AND FIGURES

- Mobile broadband communications via satellite is just reaching maturity. The total number of broadband mobile satcom terminals is now around 25.000. However, more than 90% of these terminals do not allow data rates above 64 kbps, the speed of a single ISDN connection.
- Data services via mobile satcom systems will continue to grow at a rate of more than 50% per year as the development of globe spanning corporate networks accelerates.
- During 2003 a new generation of broadband mobile satcom services will emerge on the market.

M2sat is an European satellite operator registered in the United Kingdom. The M2sat Network Operations Centre is located in Bremen Germany and the M2sat Gateway in Sjarjah in the United Arab Emirates. The commercial activities are co-ordinated from

Amsterdam in Holland. M2sat is based on the extensive experience in the mobile satcom industry of its founders that have been involved in the development an exploitation of satellite data services over the last 20 years

M2sat services are offered via the Thuraya satellite and have the following features:

- M2sat is offering broadband services with data rates of 192 kbps and higher
- M2sat is offering its services using the portable TakeAway® terminal that is small enough to be taken on board of airplanes as hand luggage. The terminal is easy to use and can be set up within 5 minutes.
- M2sat's circuit switched services are ideally suited for QoS sensitive broadband applications like high quality video transmission, video conferencing, LAN-LAN connections, secure Intranet Access and Virtual Private Networks, or for multiple access solutions via a mux and encrypted voice and data connections.



Mobile broadband to the max!

M2sat coverage

M2sat uses the proven technology of geo-stationary satellite infrastructure to provide its services, the only requirement for service a free line of sight to the satellite. As M2sat services are offered via the Thuraya system just point the TakeAway® terminal to the Thuraya satellite in the south at 44 degrees East. M2sat services are available in the geographical area below



M2sat: covering Europe, North Africa, the Middle East, Central and South Asia

M2sat: a new generation mobile satcom services

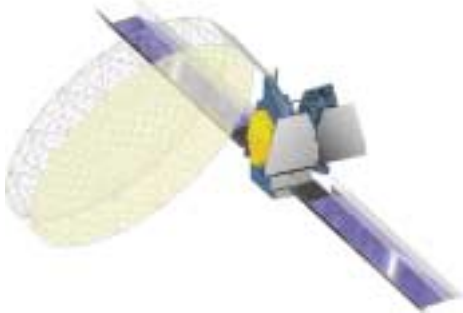
The history of mobile satellite communication services is one of narrow band voice, fax and small data communication, even when in the late nineties, 64 kbps services were achieved in the mobile satcom market.

In our 21st century society however, the demand for more bandwidth has developed far beyond that limit, as IP networking and multimedia communication are now standard in the world's corporate intranets and in the vast extranets covering industry value chains of internationally co-operating industries.

M2sat is the first of a new generation of mobile communication networks providing real broadband services. Connected to a stand-alone laptop, PC or Local Area Network the M2sat TakeAway® forms a powerful portable broadband communication unit for remote labour sites or production units, field crews or single corporate travellers.



Thuraya/M2sat gateway in Sjarjah (UAE)



M2sat: flexible and cost effective!

M2sat complements existing terrestrial telecommunication connections or fixed satellite VSAT systems in a valuable way. The easy-to-use TakeAway® terminal provides a very flexible broadband communication solution. It can be taken to practically every location and can be set up within 5 minutes. With its total weight of only 10 kg's it is very easy to transport by plane, by car, by public transport and even by foot.

Because the TakeAway® terminal is easy to operate, no dedicated satellite equipment

operators are required. The terminal can be taken along and operated by any professional just after a short instruction, reducing your overall operational costs.

M2sat will provide international and multinational corporations as well as government agencies, NGO's, or Peace Keeping Units with the most cost-effective flexible broadband communication solution available, to manage their international operations.

m2sat makes you more competitive

M2sat: the best of two worlds

Outside the coverage of terrestrial telecommunication networks remote teams in the past had only two options to communicate from remote locations.

Fixed satellite terminals or VSAT's that can provide very high bandwidth per connection but that have a complex deployment. VSAT deployment can take up to several months because of the logistics involved and the very strict license requirements. The second option was to use current mobile satcom equipment. These portable units are easy to transport and to deploy however they provided only limited capacity with a maximum bandwidth of 64 kbps.

M2sat combines the best of both worlds.

Not only does M2sat work with the portable TakeAway® terminals, the system also provides broadband satellite services with speeds from 192 kbps upwards. M2sat broadband capability provides strong networking possibilities like WAN connectivity, LAN-LAN interconnect or Multi User Access, but also brings the power of multimedia communications like video conferencing applications within the reach of small remote teams for the first time.



The M2sat TakeAway®, packed in a standard carry-on bag, can be taken into an air plane as hand luggage