KuSatPro Guaranteed Europe Services

KuSatPro Guaranteed: Pro-grade Satellite Internet Access

M2sat provides guaranteed Ku-band services in Europe using easy to install satellite equipment for fixed, mobile or temporary IP-connections at remote sites.

The KuSatPro Guaranteed Europe service is developed especially for corporate, governments and NGO customers that require professional grade internet access in the European territory for standard office applications like: Internet / Intranet browsing, E-mail, Telephony and Voice over IP, FTP.

KuSatPro Guaranteed Europe Retail Pricing (cont. ratio 1:3)

Service Level	CIR * Min. guaranteed rate (CIR) Kbps		Maximum Information Rate** (MIR) Kbps		USD Charge per month ***
	Upload	Download	Upload	Download	
1	32	64	128	256	634
2	48	96	256	512	950
3	64	128	256	512	1267
4	128	256	512	1024	2093
5	256	512	768	1536	3603
6	256	768	768	2304	4628
7	256	1024	768	3072	5632
8	512	1024	1024	3072	6525
9	512	1536	1024	4608	8169
10	512	2048	1024	6144	10178
11	1024	2048	2048	6144	11661
12	1024	3072	2048	9216	15300
13	2048	4096	2048	12288	22938

Notes:

Charges applicable for 12 months contract term. 5% discount for 36 months contracts. Tariffs for flexible bandwidth up- and down-grades are available on request. Other bandwidth combinations are available on request.
Charges are for budgetary purposed and can be changed by M2sat at any time.

*   The CIR (Committed Information Rate) is the <u>minimum guaranteed IP bandwidth.</u> The CIR can be shared by multiple terminals of the customer (closed user group). Each terminal can be assigned with an own minimum guaranteed bandwidth within the total CIR of the service. Guaranteed bandwidth which is not used by one terminal is automatically available for the other terminals of the customer cug.

**   The MIR (Maximum Information Rate) is the peak IP bandwidth shared with up to 2 other terminals (Contention Rate 1:3).

***   For minimum antenna size of 1 m and minimum contract term of 12 months.

KuSatPro Guaranteed Europe Services

KuSatPro Guaranteed Europe Service includes:

– Satellite coverage of Europe via Telesat T12 and Eutelsat 39 satellites (see coverage maps below)

– Internet access via the M2sat satellite gateway at Bremen (Germany) and Mt Jackson (USA)

– Unlimited upload and download data volume

– 1 static public IP address (additional addresses available on request)

– Connectivity to the public telephone network for up to 2 simulataneous phone calls (additional lines on request).

– 24/7 operation of the satellite network and technical support support

Networking Options:

Within the European coverage area we can make flexible service arrangements for groups of terminals and secure connectivity to your corporate network.

We can set up and activate the following functions for you:
- Prioritization of applications according to customer specification
- CIR (per application, per satellite terminal or per group)
- Internet access control (routing of traffic through Layer 7 firewall at gateway)
- Integrated back up service and transparent switching to alternative communication
  paths (e.g. Iridium, Inmarsat, 3G/4G or other IP-networks)

M2sat Apps :

VOIP:
Via the VOIP PABX at our teleport we provide a flat fee charge for European destinations. We can also connect to your own VOIP network. We offer free phone calls into the fixed telephone networks of selected European countries. Phone calls to mobile networks or to countries not included in the Euro-Flat tariff zone are charged according the applicable tariffs (check for M2sat VOIP Services leaflet for call charges). For all outgoing phone and fax calls the call details are provided monthly with the invoice.

SuperBrowser:
TCP Acceleration, compression and bandwidth optimization (e.g. blocking of advertising) for improved internet browsing via satellite.

SatFTP:
Optimized FTP connections to send large data volumes from the remote terminal back to the head office or studio. Transmission of non-time critical data during off-peak hours.

MultiCast
Parallel transmission of data or files to multiple locations in the network for lower bandwidth consumption.

Land (mobile) Satellite Equipment:

The service can be used both with fixed and mobile satellite equipment. For the KuSatPro Guaranteed Service we use iDirect modems. Check our KuSatPro terminal packages for more information.

M2sat Permanent Link Equipment	
1,8 m Type 123 Class II TxRx Antenna with Ku-band Feed Assembly (2-port, linear, cross-polar) Intelsat/Eutelsat Type Approval 6 Watt BUC standard Ku-Band PLL LNB low or high Ku-band iDirect X5 Satellite Modem with integrated IP Router 75 m IF cable with connectors and Surge Protection/Grounding Kit	

M2sat FlyWay/Drive Away Equipment	
0,98 m auto pointing FlyAway or DriveAway Antenna with Ku-band Feed Assembly (2-port, linear, cross-polar) Intelsat/Eutelsat Type Approval 8 Watt BUC standard Ku-Band PLL LNB low or high Ku-band iDirect X5 Satellite Modem with integrated IP Router Custom Flight Case	

Life Cycle Services:

- Installation of equipment, network and applications configuration
- Installation Training (optional) at our Bremen Teleport**.**
- Line-up and activation.
- Logistics and Shipping : M2sat can arrange all shipping facilities for satellite equipment, where the customer takes care of the import of the terminal into the country of the site location.
- Licensing: M2sat does not provide any licensing services for the local operation of the services. Experience shows that customers can better take care of this.
- 24/7 Service Operations and Monitoring
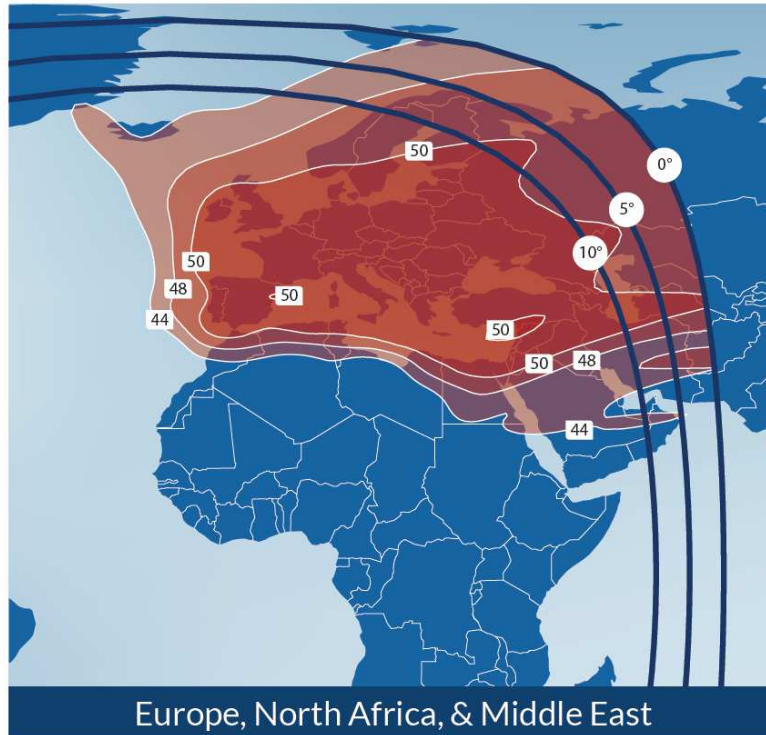- 24/7 Hotline for technical support

Specific Pricing proposals

The pricing mentioned in this brochure is for budgetary purposes only and can be changed by M2sat at any time without guarantees. The described services are all subject to availability.

For specific pricing for a VSAT project or a customer requirement please contact
Hub Urlings   Tel: +31 20 4945097 or +49 421 22379188
The M2sat team   Email: urlings@m2sat.com

M2sat KuSatPro Guaranteed Europe Coverage area

Europe (Telesat T12 Satellite at 15° West)

Europe, North Africa, & Middle East

Europe / Middle East (Eutelsat E36 Satellite at 36° East)