



## com.sat IP Basic

### Two-channel ISDN-IP-UMTS Gateway for Voice and Data

- Trunking Next-Generation-Gateway for average call volume
- IP-PBX compatible, manufacturer-independent
- Backup for Voice and Data
- Fixed Mobile Convergence
- SMS
- Internet access via UMTS
- Mobility Server
- SIP Proxy
- Available in two software versions:
  - FW-V1 – Voice / Data / SIP-Trunk
  - FW-V2 – Voice / Data / SIP-Trunk / SIP Proxy

## Application:

The coM.sat IP Basic is a software-based system platform that allows the upgrading of existing communication infrastructure, enabling it to operate also with VoIP.

The equipment comes with 2 UMTS channels for the simultaneous operation of voice- and internet. A S0-port provides the interface between a conventional ISDN PBX and the benefits and advantages of state-of-the-art IP-technology, though without interfering in the already existing infrastructure.

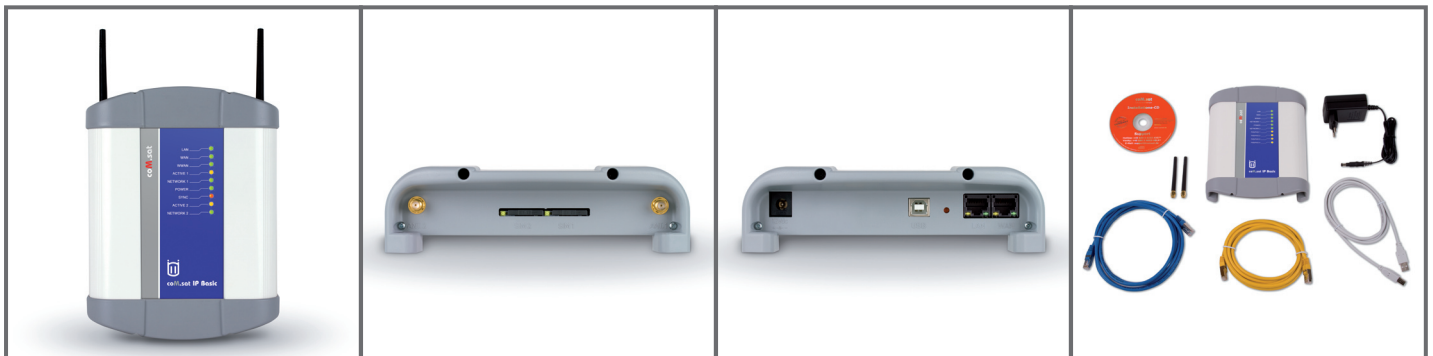
Thanks to an impressive range of routing options – IP/UMTS, ISDN/UMTS and ISDN/IP – there is almost no application scenario the coM.sat IP Basic does not fit in.

Besides being able to operate as FMC-, Backup- and/or LCR-Router the coM.sat IP Basic can also be operated as a Media gateway. In addition the coM.sat IP Basic V2 supports SIP-Proxy and can therefore serve as a Wireless IP-PBX with up to 6 extensions.

The coM.sat IP Basic is managed through a web-based interface that can be accessed through any browser type. This allows the user to independently configure all equipment parameters, perform its maintenance and retrieve statistic data. All connection data can be viewed online or as well saved and exported into current file formats.

## Features:

- Transmission of Voice, Data and SMS
- Simultaneous transmission of Voice and Data
- Flexible and redundant SIP, ISDN, UMTS-Routings
- Connection of an ISDN PBX through the external or internal S0-Bus
- USB-interface for transparent access and connection of the UMTS modules
- Configuration of router-activation according to destination numbers or provider
- Dialer functionality
- Direct dial extensions
- Configuration option of call forwarding to extension according to calling number
- Selective call blocking for incoming as well as outgoing calls
- Alternating operation of the UMTS-channels
- Configuration of up to 4 SIP Trunks
- Alternative usage of the SIP Trunks
- SIP Proxy (6 clients, 4 channels)
- DISA for PBX supported
- Call back & call through
- Web based GUI
- Basic Router Features (PPPoE, Static Routing, VLAN tagging)
- Fallback Routing for data connection (WWAN)
- Dynamic DNS supported
- Monitoring function for identification and analysis of ISDN-/SIP-/GSM-/UMTS-errors
- CDR (call detail records)
- Integration of mobile terminals into the PBX
- One-Numbering (FMC)
- Unconnected Calls
- Free configuration of transmitted CLI
- Return Call Handling
- Voice messages
- GSM / UMTS Net Lock
- Outgoing calls controllable according to extension or extension type (analogue/digital)



## Technical Data:

### General:

- Dimensions: 170 x 225 x 50 mm
- Weight: ca. 700 g
- Power supply: 12-14 V DC
- Power consumption: max. 0,9 A in operation

- Voice / Data / SMS
- 3V SIM Cards
- Antenna: 50 Ohm Impedance with SMA-F-Connector
- Temperature: 0°C - 40°C (Indoor)

### Interfaces:

#### Data

- WAN Port 10/100 MB RJ 45
- LAN Port 10/100 MB RJ45
- Supported Protocols:  
TCP, UDP, IP, RTP, FTP, Telnet, HTTP
- IPV6 Ready

#### Voice

#### GSM/UMTS

- UMTS: 850/1900/2100 MHz WCDMA  
Power class 3 (+24dBm)  
850/900 MHz GSM/GPRS/EDGE  
GSM Power class 4/EDGE E2  
1800/1900 MHz GSM/GPRS/EDGE  
GSM Power class 1/EDGE E2

#### VOIP

- SIP Protocol
- Supported Codecs:  
G.711 a-law/μ-law - G.723 (5.3 kbps/6.3 kbps) -  
G.729, GSM FR - iLBC\_30ms - iLBC\_20ms
- 4 simultaneous voice channels
- DTMF: RFC 28833 or Inband

#### ISDN

- ISDN BRI, NT / TE