



An Analog GSM Gateway with a DialThru function

- Dramatic cost savings
- Voice, Data (GPRS, CSD), SMS and PC FAX transmission
 - DialThru function
- Both FXO and FXS interfaces
- Connection to GSM networks for PBX or phone set
- GGMC (GSM Gateway Monitoring Centre)

Wireless
Modules
by Siemens
embedded



ATEUS® – SmartGate

An Analog GSM Gateway with a DialThru function

ATEUS® – SmartGate is a single-channel analog GSM gateway, which provides a number of services for a cost-efficient way of communication. This smart solution enables the user to save a lot on GSM call costs. It is intended for small and medium size companies. If connected to a PBX and a PC (LAN), SmartGate can be used for Voice, Data through GPRS, SMS and PC Fax transmission.

A strong emphasis has been put on sound quality, reliability and long lasting performance. SmartGate is equipped with both FXS and FXO interfaces, which gives the gateway a wide range of potential applications. It can be installed on a dedicated interface or connected in a DialThru way.

The gateway can be installed on a PBX trunk line, a PBX extension line, or a single PSTN line. With SmartGate on a PBX extension line, the new feature "Follow me" makes the user accessible any time and anywhere on the mobile phone to people who dial the user's fixed number assigned by the PBX. SmartGate enables all LAN users to send and receive SMS with a 2N network application – the SMS server. The delivery status of any message can be obtained automatically.

The GPRS connection enables e-mail communication and Internet browsing. It is often used as a back-up Internet connection for small offices, or as a primary Internet connection on boats or in distant areas. There is a universal input in the gateway (see the green connector in the picture) allowing to send predefined SMS after activation by an external signal.

This analog GSM gateway can also be supplied from any 12V battery, which makes the device fully mobile. SmartGate can be installed within a few minutes and its installation requires no special technical skills.

Special features: GGMC – GSM Gateway Monitoring Centre
Automatic SMS in case of low SIM card credit

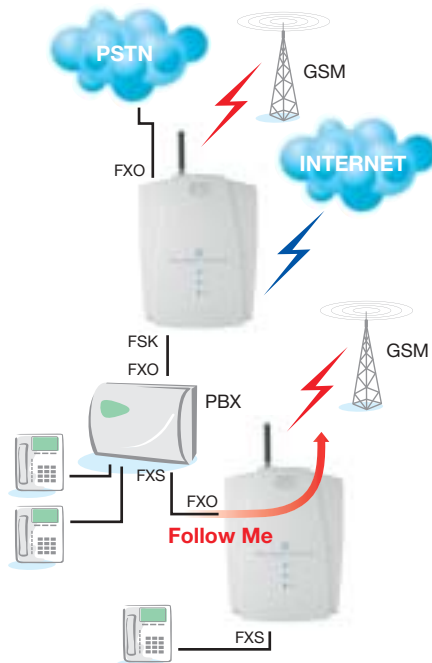
ATEUS® – SmartGate

Features:

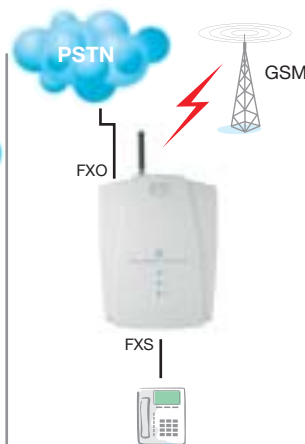
- 2-wire, FXS interface (for analog phone or PBX CO line)
- 2-wire, FXO interface (for PBX extension line)
- DialThru function
- Support of SMS server for SMS sending & receiving
- Serial port for GPRS/CSD connection
- PC FAX sending & receiving
- 12V power supply
- CLIP support – you can see the calling number on your telephone display
- Automatic SMS sending activated by external signal
- SMS informing of low credit in prepaid cards
- GGMC support (GSM Gateway Monitoring Centre)
- Baby call feature (automatic call without dialling)
- Dialed number restriction, evaluation and modification
- Worldwide use (all frequencies are supported) *



Installations with PBX



Installation on a PSTN line



Item description	Part No.
ATEUS® – SmartGate – TriEuro	501403E
ATEUS® – SmartGate – TriUS	501406E
ATEUS® – SmartGate – TriUS 110 V	501406US
EnergyBank backup power supply	501399E

Technical parameters

GSM	
GSM network type	900/1800/1900 MHz*, 850/1800/1900 MHz*
GSM modules	Siemens MC45; Siemens MC46
SIM card	3 V and 1.2 V
Transmitter output power max.	2 W
Receiver sensitivity	-104 dBm
Supported connections	
Voice call	
CSD data connection	
GPRS class 10 data connection	
SMS sending and receiving	
PC fax support (not for analog faxes)	
Antenna	
Connector type	SMA
Impedance	50 Ω
Power supply	
Adapter	100–240 V/12 V; 0.5 A
Possibility to connect external voltage	10–16 V (12 V accumulator)
Consumption with 12 V power supply	
Stand-by consumption	100 mA
Typical power consumption during a call	300 mA
Maximum power consumption during a call	420 mA
FXS interface	
Interface type	2-wire, FXS for PBX CO line
Connector type	RJ12, 6/2

Line impedance	600 Ω
Off-hook voltage	24 V DC
Maximum line current (short-circuit)	40 mA
Ringing voltage	42 Vef, 50 Hz (25 Hz version is possible)
Supported dialling modes	DTMF and Pulse
Identification of calling party	CLIP transmission in ETSI FSK standard during ringing
Tariff pulses	16/12 kHz
Answer supervision via polarity reversal	
FXO interface	
Interface type	2-wire, FXO
Connector type	RJ-12, 6/2
Off-hook line current	10–65 mA
Off-hook line voltage typ.	4 V @ 30 mA
Dialling type	DTMF
Ringing voltage	min. 20 VRMS, 25–50 Hz
Ringing impedance	4–10 k. @ 50 Hz
Surge current	2x 10,000 A (8/20 μs)
Data interface	
Data interface	RS232
Connector	D-Sub 9, female
Transmission rate	9600-115200 bit/sec, autobauding
Others	
Dimensions	170x130x45 mm
Operating temperature	0–45 °C
Current status signalling	3 LEDs – power, GSM network connection, line status

* depends on the GSM engine type

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