



2N Analogue GSM Gateways

Cost-effective means of communication



- Full GSM coverage
- Phone line interface FXS and FXO *
- Analogue Fax
- Data connection (GPRS/CSD)
- SMS sending/receiving
- Baby call function
- Identification of calling party (FSK CLIP)
- 2N® Mobility Extension function *
- Dial Thru function *
- Remote monitoring *
- Black and White list for all incoming *
/calling numbers on each interface

* 2N® SmartGate has both of ports (FXS and FXO),
2N® EasyGate has only FXS port

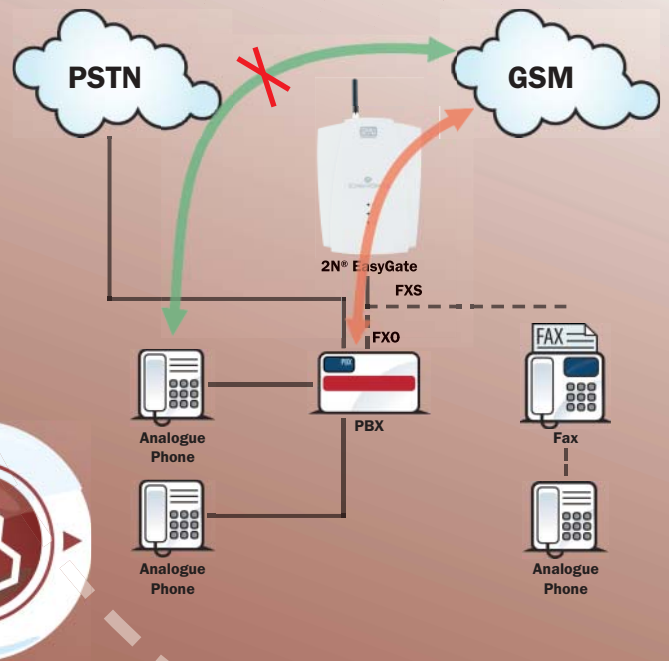
2N®EasyGate and 2N® SmartGate are one-channel analogue GSM gateways providing a cost-effective means of communication by giving the user an opportunity to save costs on calls to GSM networks.

2N analogue gateways are intended for small and medium size companies. They can be used for voice, data, analogue fax and sms transmission. It brings you fixed line functionality in a mobile solution.

2N® EasyGate Case Study:

Connection of PBX external line

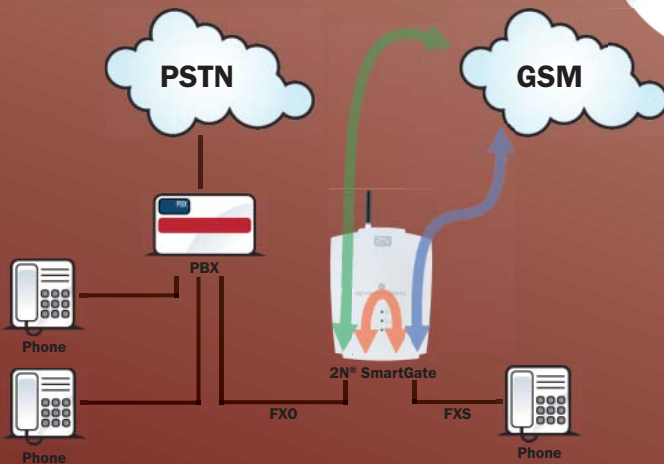
- Cost savings on GSM networks calls
- 1 analogue GSM gateway port
- Possibility to connect an analogue phone, fax machine, data terminal, PC, external line of PBX



2N® SmartGate Case Study:

Dial Thru function

- Cost savings on GSM network calls
- 2 ports analogue GSM gateway
- Possibility of connection between a PBX and network without the need to programme the PBX



Technical Parameters: GSM

| | |
|---|--|
| GSM bandwidth | 2W EGSM 850/900 MHz, 1W GSM 1800/1900 MHz |
| Receiver sensitivity (typ.) | - 104 dBm |
| Audio | HR + FR + EFR Half rate + Full rate + Enhanced fullrate Echo cancellation, Echo suppression |
| DATA | GPRS Class 10, 4+2 max. 85.6 kbps downlink CSD max. 14.4 kbps; Coding scheme CS 1, 2, 3, 4 |
| Antenna | 850/900/1800/1900 MHz 50 Ω SMA antenna connector |
| SIM card | 3V and 1,8V |
| Fax | |
| Fax | G3 Analog Fax (optional) |
| Supported protocols | V.27ter (2400 bps, 4800 bps), V.29 (7200 bps, 9600 bps) |
| Power Supply | |
| Power Supply | 100-240V/12V; 0,5A adapter |
| DC power supply | 10 to 16 V DC (accumulator 12V) |
| 12V consumption (typ.) | Standby 100 mA, Call/data typ. 300 mA, max. 400 mA |
| Supply connector | DC Jack 5,5/2,1 mm |
| TELEPHONE INTERFACE FXS (FOR PBX EXTERNAL LINE OR PHONE SET) | |
| Interface type | 2-wire analogue, FXS |
| Phone connector type | RJ 12, 6/2 |
| Line impedance | 600 Ω |
| Loop voltage | 48 V DC |
| Loop current | max. 40 mA |

| | |
|-----------------------------|--|
| Dial tone frequency | adjustable, default 425 Hz |
| Dialling type | tone (DTMF) or pulse |
| Ringing voltage | 42 Vrms 50/25 Hz |
| Calling line identification | CLI during ringing according to ETSI FSK |
| Tariff pulses | f = 16/12 kHz |
| Answer supervision | polarity reversal, 12/16 kHz pulses |

TELEPHONE INTERFACE FXO (FOR PBX EXTENSION LINE) *

| | |
|--------------------------|----------------------|
| Interface type | 2-wire analogue, FXO |
| Telephone connector type | RJ 12, 6/2 |
| Line impedance | Z _R |
| On-hook DC resistance | min. 1 MΩ |

| | |
|---------------------|----------------------------|
| Dial tone frequency | adjustable, default 425 Hz |
| Dialling type | tone (DTMF) |

DATA INTERFACE

| | |
|-------------------|---|
| Interface type | RS-232 (GPRS or CSD), optionally RJ12 (Modem) |
| Connector | D-Sub 9, female |
| Transmission rate | 1200 – 115200 bps (autobauding) 8N1 |

OTHERS

| | |
|-------------------------------|---|
| Dimensions (w / o connectors) | 170 x 130 x 45 mm |
| Operating temperature | 0 °C – 45 °C |
| Operating status signalling | 3 LEDs (power, GSM network and line status) |

* Available only in 2N® SmartGate version

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