2N® EASYGATE PRO GSM GATEWAY

> **Dramatic cost saving**
> **Connection to GSM Networks**
> **Voice, Data and SMS transmission**
> **Analogue FAX and Data (optionally)**
> **For PBX or Phone sets**
> **FSK CLIP**

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2N® EasyGate Pro Quick Start

Basic Functions

- The primary purpose of 2N® EasyGate Pro (from now only 'Easy Gate') is to transmit voice between a GSM network and an attached FXO-interface terminal.
- You can establish data connections (GPRS, CSD) and send/receive SMS in combination with a PC.
- Models of EasyGate with fax converter can transmit fax messages using analog fax Group 3 or data using analog modem on telephone line.

- You can send an SMS to a pre-programmed number using the SMS sending input.
- The battery backed-up EasyGate version allows you to maintain your traffic even in the event of power outage.
- Firmware for EasyGate can be updated from **www.2n.com**

⚠ *Read the User Manual carefully to get familiar with all system functions at wiki.2n.com.*

⚠ *EasyGate supports GSM GPRS technology for data connection. The connection speed and quality depend on the GSM provider, accessible services, signal coverage and network status.*

2N® EasyGate Pro Installation and Connection

- **Proper Location**
  - Install EasyGate with respect to a good GSM signal strength.
  - Place EasyGate out of range of sensitive devices and human bodies for electromagnetic interference reasons.
  - EasyGate is designed for indoor use. Do not place it near heat sources and on direct solar radiation. It may not be exposed to rain, flowing water and moisture, aggressive gas, solvents etc.
- **External Antenna Connection**
  Screw the antenna cord into the SMA antenna connector. Tighten the antenna connector gently with your hand, never use a wrench!
- **SIM Card Installation**
  Slot for SIM card is placed on the connector panel. Insert the SIM card to the slot according to the picture and make sure that the card is locked properly. Select the required GSM provider and SIM card services, such as call forwarding, call barring, preferred networks, SMS centre, etc. using your mobile phone before inserting your SIM card into EasyGate.
- **Telephone Line Connection**
  EasyGate can be connected to any FXO-interface equipment (standard telephone set, answering machine, PBX CO line...). EasyGate is equipped with identification of calling party (CLIP) via FSK and so it is advantageous to connect a terminal that is able to display the CLI.
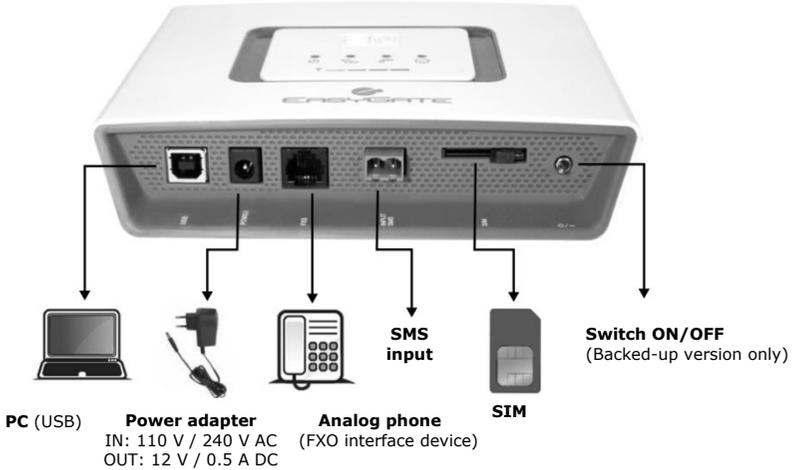- **Battery installation (battery backup type)**
  Insert four pieces of rechargeable battery NiMh size AA into the covered compartment on the back side of the gateway. Refer to the compartment label for proper battery placement and polarity. Use mentioned type of batteries only!
- **Mains Supply Connection and Switch On**
  EasyGate is 12 V DC voltage powered. Connect the attached power adapter (12 V / 0,5 A DC) to the power supply connector. Battery backup types are equipped with the power switch.

⚠️ *Do not activate the power supply until the antenna is connected to EasyGate to avoid the GSM module damage.*

2N® EasyGate Pro Connection Layout

SMS input

Switch ON/OFF (Backed-up version only)

SIM

PC (USB)

Power adapter
IN: 110 V / 240 V AC
OUT: 12 V / 0.5 A DC

Analog phone
(FXO interface device)

Indication LEDs

Power supply	⏻	**Blue light** – mains supply **Yellow light** – battery supply
GSM Network	◌◌	**Blue flashes** – logged out **Blue light** – logged in
Phone line	☎	**No light** – standby **Yellow flashes quickly** – ringing – line off-hook **Yellow light** – call **Flashes 2-3 times** – fax or data connection over FXS (fax version)
Data	🖵	**Green light** – PC connected **Flashes quickly** – incoming data **1x in 3s** – data transmission
Signal, battery indicator	📶	**Signal strength indicator** After hook off before start of dialing – battery state

Detailed description is in manual on wiki.2n.com.

PIN Secured SIM Card

1. Hook off the telephone and hear the PIN tone: ▀▀▀▀ ▀▀▀▀ ▀▀▀▀
2. Enter the PIN using DTMF and press ⊠ for confirmation. Hang up the line to cancel a wrong PIN.
3. If you hear the busy tone after a while (a few seconds), the PIN has been entered correctly. This PIN will be entered automatically upon every power up.
4. If you hear the PIN tone again after a while, the PIN has not been entered correctly. Re-enter the PIN.

⚠️ *By entering three wrong PINs you block the SIM card. Enter the PUK code into your mobile phone to unblock the SIM card.*

Outgoing call

- Suppose that the SIM card has been inserted, the PIN entered or not required, and EasyGate is registered to GSM network – the GSM Network LED is permanently on.
- Hook off the telephone, you can hear the dial tone and the Line LED starts flashing.

- Dial the GSM subscriber number. EasyGate receives tone dialing (DTMF) by default. If your telephone transmits pulse dialing only, program EasyGate to receive pulse dialing. When you make a delay in your dialing longer than 5 s (programmable), the connection is established.

- If the called subscriber is available, you can hear the ringing tone. If not, you can hear the busy tone or any of the GSM provider's messages.
- When the called subscriber answers the call, the call is established. The Line LED is permanently on during the call.
- Hang up to terminate the call. The Line LED goes off. If the called subscriber is the first to hang up, you can hear the busy tone and hang up.

Incoming call

- An incoming call is signaled by ringing. The Line LED flashes during ringing.
- Hook off the phone to establish the call. The Line LED is permanently on during the call.
- For call termination see the Outgoing call section.

Fax and modem connection (fax models only)

EasyGate with fax converter has ability to manage fax messages using analogue fax Group 3 and data connection using analog modem connected to telephone line. The fax or data service must be registered with your GSM operator.

- **Outgoing FAX call or Data connection**
  Before destination number dial code ***01*** for fax call or ***02*** for data call. When connected device generates calling tone, this preset is not necessary.

- **Incoming FAX call or data connection**
  It is recommended to activate separate fax number on your SIM card – **multinumbering scheme**. Fax messages and data connection should be routed to appropriate number. If the fax or data number is not activated, the call from analogue network is not detected as fax or data call and is routed via the analogue channel of GSM network, the connection can´t be established. In this case it is possible to set fax engine in the gateway to receive the next call as fax or data call – see the manual on wiki.2n.com. This function is not guaranteed by all operators.

Configuration over USB

- For PC configuration of EasyGate is necessary to install PCManager UNI. Connect EasyGate to PC using USB cable.
- Virtual serial port(USB serial port FTDI) is created immediately after linking PC and EasyGate. This port is used by PCManager to communicate with EasyGate. When the port isn't activated automatically use driver at www.2n.com.
- The COM port number of virtual serial port has to be set in PCManager.
- USB port can be used for data communication (CSD, GPRS) directly over GSM module.
- Detailed description of configuration and data communication is in the product manual on wiki.2n.com.

⚠️ ***In the GSM network, GPRS data transfer is suspended during voice calls and do not continue until the voice call is finished.***

EU Declaration of Conformity
Hereby, 2N TELEKOMUNIKACE a.s. declares that the radio equipment type 2N® EasyGate is in compliance with directives 2014/53/EU and 2011/65/EU. The full text of the EU declaration of conformity is available at the internet address www.2n.com.