**Transparent Modem Upgrade**

Find 4 Solutions for Replacing Point-to-Point Analog Modems

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**Connection Description**

Point-to-Point Analog Modem Connections between Devices and Central Servers have several drawbacks. List them and describe 4 innovative and smooth solutions to solve them.

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**PSTN subscription required**

**Billing problems when the phone line is shared**

**Maintenance problems due to proprietary software**

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**Solution #1: ISP Way**

Use eDmod100 Analog Modem with Embedded TCP/IP stack to transfer data over Internet after connecting to a standard Internet Service Provider.

- **Regular Device**
  - eDmod100
  - TCP/IP Modem
  - No changes required from the AT device driver!

- **Central Server**
  - eDBox200
  - Ethernet Terminal
  - LAN modem allows to keep the same software

- **Internet Network**
  - IP(data)
  - PPP Link

- **PSTN Network**
  - data
  - V32, V34, V90

The Internet modem establishes a PPP connection to the ISP. Raw data can be encapsulated into TCP, POP3, FTP frames.
**Solution #2** Ethernet Way

Using eDmod200 Ethernet Modem with AT command emulation to transfer data over LAN

Regular Device (eDmod200) connected to Internet Network.

- No changes required on the AT device driver!

- Raw data is encapsulated into TCP/IP frames

- The LAN modem emulates AT commands

**Solution #3** GPRS Way

Using eDmod300 GPRS TCP/IP Modem with AT command emulation to transfer data over GPRS

Regular Device (eDmod300) connected to Internet Network.

- No changes required on the central server!

- Raw data is encapsulated into TCP/IP frames

- The GSM/GPRS modem emulates AT commands

**Solution #4** GPRS Way without changes!

Using BridgeD130 GPRS2PSTN Converter solution to transfer data over GPRS without any hardware or software changes

Regular Device (Analog Modem) connected to Internet Network.

- No changes required on the regular device!

- No changes required on the central server!

- The BridgeD130 extracts the data with modem -1

- The BridgeD130 extracts the data with modem +1

- Gives access to TCP/IP layer through AT commands