



NK8000  
MP4.40

## Product Datasheet

### NK8021 Analog Modem

- V24/V28 Serial Interface Modem compatible to the following standards: V.90, V.34+, V.34, V.32bis, V.32, V.22bis, V.22, V.21
- Provides backup dial-up connection (secondary connection) from NK8000 Ethernet Port units to Management Stations if primary IP network is down
- Provides primary dial-up connection from NK8000 Ethernet Port units to Management Stations if no IP network is present
- Automatically detects the correct modulation scheme – V.90 in multistandard mode

## Technical data

### Features

Mountable in all NE8000 cabinets using holder brackets (included)



- Multistandard modem V.90, V.34+, V.34, V.32bis, V.32, V.22bis, V.22, V.21
- Line speeds (bps): 300 – 33600
- DTE Autospeed up to 115200 bps
- Asynchronous format 8, 9, 10, 11 bit
- Data compression according to MNP5 and V.42 bis
- V54 diagnostics
- AT command set
- Pan European CTR21 approval
- DTMF and pulse dialling
- Automatic answering
- Upgradeable firmware on Flash memory
- Error correction according to MNP2-4 and ITU-T V.42

### Connectors

- 4-pin screw terminal connector for power supply
- 10-pin screw terminal connector for RS232 line or via included cable with D-Sub 9 pin, male type (cable length 30cm)

### Power Supply

Input voltage	12Vdc
Input current	200mA

### Environmental limits

- Operation: +0 ... +45 °C  
 Humidity: 20 ... 80%, non condensing  
**Caution:** Avoid rapid changes in temperature / humidity (0.03°C/min)  
**Note:** This equipment, including cables, should be installed in an area free from:
- Dust, humidity, heat from direct sun light.
  - Objects which irradiate heat. These could cause damage to the container or other problems.
  - Objects which produce a strong electromagnetic field (loudspeakers, etc.)
  - Liquids or chemical corrosive substances.

### Dimensions

Modem provided with metallic plate	100(W) x 150(H) x 18(D)
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### Weight

Modem and plate	0.186kg
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### Approval

CE

### Disposal



This device includes electrical and electronic components and must not be disposed of as domestic waste. **Current local legislation must be observed.**

### Related documentation

<b>NE8000 Datasheet</b>	Sales material binder Section 2	Document no.: A6V10062421	NE8001/NE8002 Housing Solutions for NK822x
<b>NK8000 Technical manual</b>	Technical material binder Section 2	Document no.: A6V10062437	NK8000 Installation, Function & Configuration, Commissioning, Safety Regulations

## Ordering information

<b>NK8021 Analog modem</b>	A6E600245	NK8021	Analog modem for public switched telephone network (PSTN)
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## Related Products

<b>NK8232</b>	Ethernet port for a single subsystem	S54461-C2-A3	NK8232.2	<ul style="list-style-type: none"> <li>- Ethernet lines for remote host</li> <li>- 2 serial lines for a single subsystem / local host / modem</li> </ul>
<b>NK8235</b>	Ethernet port	S54461-C2-A1	NK8235.2	<ul style="list-style-type: none"> <li>- 2 Ethernet lines for remote host</li> <li>- 2 serial lines for subsystems / modem</li> </ul>
		S54461-C2-A2	NK8235.4	<ul style="list-style-type: none"> <li>- 2 Ethernet lines for remote host</li> <li>- 4 serial lines for subsystems / modem</li> </ul>
<b>NK8237</b>	Modbus Gateway	S54461-C7-A1	NK8237.2	<ul style="list-style-type: none"> <li>- 2 FS20/FS720 panels and 3rd party Modbus client</li> <li>- 2 serial lines for a Modbus master device</li> </ul>
<b>NK8225</b>	Ethernet port	A6E600303	NK8225.2	<ul style="list-style-type: none"> <li>- 1 Ethernet line for remote host</li> <li>- 2 serial lines for subsystems / local host / modem</li> </ul>
		A6E600304	NK8225.4	<ul style="list-style-type: none"> <li>- 1 Ethernet line for remote host</li> <li>- 4 serial lines for subsystems / local host/ modem</li> </ul>
		A6E600305	NK8225.CL2	<ul style="list-style-type: none"> <li>- 1 Ethernet line for remote host</li> <li>- 1 LON line for subsystems</li> <li>- 2 serial lines for subsystems / local host/ modem</li> </ul>
		A6E600306	NK8225.CL4	<ul style="list-style-type: none"> <li>- 1 Ethernet line for remote host</li> <li>- 1 LON line for subsystems</li> <li>- 4 serial lines for subsystems / local host / modem</li> </ul>
<b>NE8000</b>	NE8001	A6E600066	Wall-mountable, metallic cabinet with DIN-rail	The unit includes a pre-wired power supply unit Input: 220Vac; output: 12Vdc 3A
<b>NE8000</b>	NE8002	A6E600067	Wall-mountable, metallic cabinet with DIN-rail	Cabinet only: 385(W) x 450(H) x 140(D) mm; RAL7035 light grey; IP-42 (as S3G300 standard Quarto housing)
<b>DF8090</b>	Power supervision for I <sup>2</sup> C bus	A6E600010	DF8090	Battery 12V, max 27Ah
<b>DF8020</b>	8-output module for I <sup>2</sup> C bus	A6E600195	DF8020	Relay contacts: NO or NC Max 2A at 30 Vdc Relay lifetime: 100'000 cycles
<b>DF8040</b>	8-input module for I <sup>2</sup> C bus	A6E600194	DF8040	NO or NC dry contacts or open collector signals Max forward current: 7 mA at 33Vdc Over voltage protection on input lines: 1K V Input voltage limit: 33V
<b>DF8045</b>	4-balanced input for I <sup>2</sup> C bus module	A6E600196	DF8045	General purpose NC supervised dry contacts Max forward current: 7 mA at 33 VDC
<b>DF8046</b>	4-balanced input module for I <sup>2</sup> C bus	A6E600197	DF8046	Normally open supervised dry contacts (compatible with B1G030 output board) Max forward current: 7 mA at 33 VDC

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NK8000 Sales Material  
Section 2