

# i-modul Modem

Transmission technology	Design			
	DIN rail	Embedded module	Desktop device	MoRoS
3G/UMTS		●	●	●
2G/EDGE	●	●		●
GPRS	●	●	●	●
GSM	●	●		●
ADSL		●		
Ethernet	●	●		●
WLAN	●	●		
Bluetooth		●		
Analogue	●	●	●	●
ISDN	●	●	●	●

## Compact Embedded Modems

With the compact *i-modul Modems* every application can connect to the world wide available telephone network. The serial interface with TTL levels can be used even by the simplest controllers.

The i-modul Modems enhance the plain data communication by alarming and security functions: alarms with a user defined text – e.g. as an SMS – are triggered by digital inputs. Data connections and remote configuration are protected by passwords. If Security Callback is activated then the modem establishes only a connection to a predefined number upon an incoming call. Selective call answer allows only data calls from specified numbers.

Two digital outputs can be controlled remotely by a data connection as well as by DTMF from a tone dial phone.

The pin and size compatible i-modul series allows to connect the application on demand to digital and mobile telephone networks, to an Ethernet LAN or wireless by WLAN and Bluetooth.

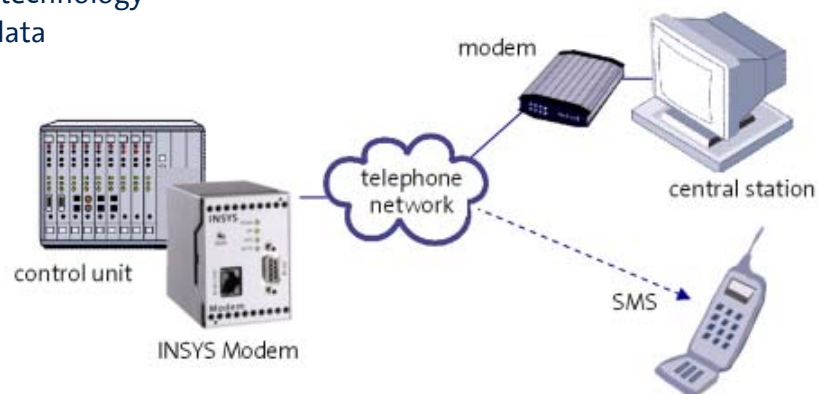


### i-modul Modem series :

- pin and size compatible to i-modul ISDN / GSM / GPRS / Ethernet / WLAN / Bluetooth
- serial access: RS232/TTL
- control by AT commands
- for international use
- data rate up to 56.000 bps (V.92)
- alarming and security functions
- digital inputs and outputs
- small size 56 x 56 mm

## Anwendungen

- remote control and remote monitoring
- vending machines
- point of sale
- alarming
- buiding technology
- mobile data



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# i-modul Modem

## Technical Data

network interface	analogue switched telephone network (PSTN), leased line on request				
maximum data rate	14.400, 33.600, 56.000 bps				
digital inputs/outputs	2 alarm inputs, 2 control outputs				
watchdog	yes				
<b>Features</b>					
configuration	AT commands over serial line, remote configuration <sup>*)</sup>				
connection	auto answer mode, idle connection control <sup>*)</sup> , number storage, international settings, caller ID presentation <sup>*)</sup> , SMS to fixed network <sup>*)</sup> , hardware / software handshake, auto bauding, fixed serial speed, sleep mode				
alarm functions <sup>*)</sup>	triggered by alarm input or AT command: send SMS, send fax, establish data connection, transmit message over data connection, collective fax message				
output control <sup>*)</sup>	AT command (local and remote), DTMF				
security functions <sup>*)</sup>	password protection for connection, security callback and remote control; selective call answer				
data formats	10 and 11 bit: 7E1, 701, 7N2, 7E2, 702, 8N1, 8E1, 801, 8N2 and bit transparent				
protocols, error correction, compression	Bell Norm 103/212, Fax Class 1, Fax Class 2 <sup>*)</sup> MNP 2/3/4, V.42, MNP 10, MNP 10 EC, MNP 5, V.42bis, V.44 V.32bis, V.32, V.23, V.22, V22bis, V21 336 PRO: plus: V.34, V.34+ 56k basic/PRO: plus: V.34, V.34+, V.90, V.92				
<b>Electrical Features</b>					
supply voltage	5 VDC ±5% (option: 3.3 VDC)				
current consumption (mA)	sleep	neutral	aktiv	max.	
	basic:	50	150	160	400
	PRO:	60	200	240	400
connector	2 mm terminal strips				
serial line speed	300 – 115.200 bps				
<b>Physical Features</b>					
size (w x l)	56 x 56 mm				
environmental temperature	0...+70°C				
humidity	0...95% (non condensing)				

\*) PRO versions only

Product name	Order number
i-modul Modem 144 PRO 3.0	11-01-01-01-26.
i-modul Modem 336 PRO 3.0	11-01-01-01-36.
i-modul Modem 56k PRO 3.0	11-01-01-01-40.
i-modul Modem 144 basic 3.0	11-01-01-01-25.
i-modul Modem 56k basic 3.0	11-01-01-01-45.

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