

# DIN rail INSYS GPRS serial / Ethernet

Shape	Transmission technology						
	3G/HSPA	GSM/GPRS/EDGE	xDSL	Ethernet	WLAN	Analogue	ISDN
DIN-rail serial	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIN-rail network	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Desktop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19" rack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## GPRS access for serial and network devices

GPRS extends the GSM network by a packet oriented service and offers substantial benefits for industrial applications.

1. Favorable accounting method by amount of data instead of connect time
2. High data rates up to 230 kbps

The INSYS GPRS serial offers a serial interface (RS232) to the application, just like a conventional modem. Serial data is routed transparently through the GPRS network. The modem can establish a connection as callback after a call or an SMS. This also enables connections from the Internet to standard cellular networks.

The INSYS GPRS Ethernet is a GPRS Ethernet router with NAT, which enables a single Ethernet device or an entire LAN to be connected locally.

## Features

- RS232 with modem emulation
- GPRS Ethernet router
- GPRS/EDGE Class 12
- Quadband for global utilization
- Power supply 10 ... 60 V DC

## Applications

- Replacement for modem
- Wireless leased line („always on“)
- Centralized software update
- Stationary / mobile video monitoring

### INSYS GPRS serial



### INSYS GPRS Ethernet



## Technical data

### INSYS GPRS serial / Ethernet

	INSYS GPRS serial	INSYS GPRS Ethernet
<b>Function</b>	cellular to serial gateway (Modem emulation)	Cellular router with NAT
<b>GSM/GPRS</b>		
Standards	ETSI GSM Phase II/II+	
Frequencies	Quad band GSM (850/900/1.800/1.900 MHz)	
GPRS/EDGE	Multislot Class 12, Full PBCCH support, Mobile Station Class B, Coding scheme 1-4 up to 230 kbps	
GSM	CSD up to 14.4 kbps	
SMS	incoming, outgoing	
<b>Interfaces</b>		
Functional / mechanical	asynchron serial RS 232 (DSUB-9 pin plug) 2+2 IOs	Ethernet 10BT 2+2 IOs
Data form	8N1, 8E1, 8O1, 8N2, 7E1, 7O1, 7N2, 7E2, 7O2	
Flow control	Hardware (RTS/CTS), Software (XON, XOFF), or none	
Speed	300 - 115.200 bps	10 Mbps
<b>GPRS connections</b>		
	CSD priority can be activated	
Outgoing IP connection	Manually (dialing command, digital input), automatically (dedicated line, incl. alternative access), incoming call, SMS commandhl	TCP/IP, UDP/IP, NAT
Incoming IP connection	TCP/IP, TSC, IPT	Port forwarding
Monitoring	Hold in idle status, periodic disconnect and reconnect	
<b>Configuration</b>		
local	AT commands	Web interface
remote	AT commands via SMS, via CSD and TCP/IP connections	Web interface (if required can be deactiva- ted)
<b>Additional features</b>	Firmware update, watchdog, virtual COM port driver	Firmware update, watchdog, dynDNS client
I/Os	Query and set, SMS transmission, dial-up	Release of the LAN and WAN interfaces
<b>Power supply</b>		
Power voltage	10 ... 60 V DC	
Power consumption	Sleep/standby approx. 2,5 W, Connect approx. 3,5 W	
<b>Physical features</b>		
Antenna connection	FME (m)	
Size in mm	110 l x 55 w x 75 h	
Temperature range	-20°C ... +55°C	

Product description	Network / Services	Order number
INSYS GPRS serial	Modem emulation	10000101
INSYS GPRS Ethernet	Cellular router	10000102

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