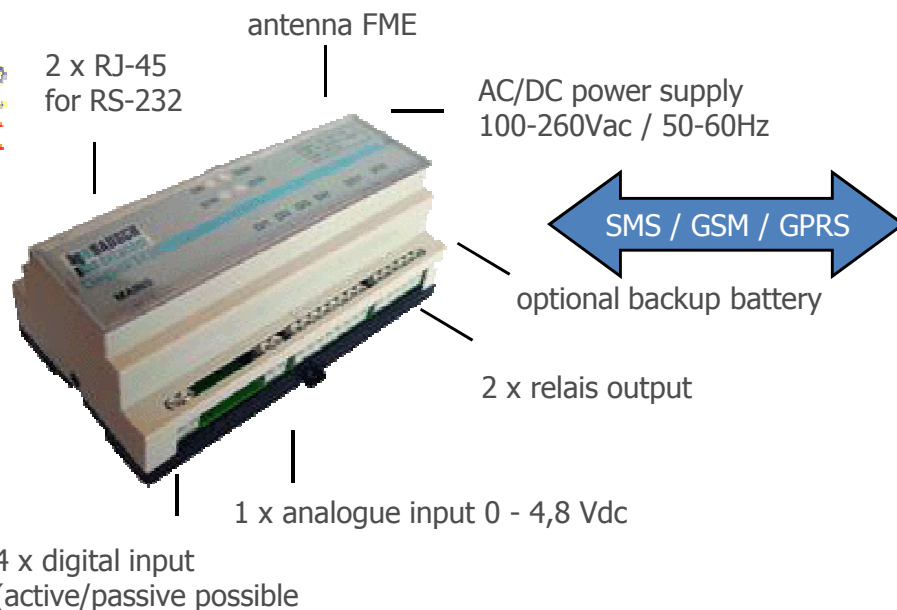# DinBox M36

Industrial modem and alarm device through GSM/GPRS or SMS

The DinBox M36 is a telemetry solution in DIN-rail housing. The product is perfectly tailored for industrial environments where reliability is important. With the DinBox M36, machines can be controlled or monitored through GSM/GPRS or SMS.

Thanks to the 'intelligent watchdog' technology and the optional backup battery the product offers the highest reliability for mission critical applications. Moreover, the DinBox M36 has an 'open Java J2ME environment' to provide opportunities for companies to develop their own application in the DinBox M36.

The DinBox M36 offers an 'always-on' solution for the wireless GPRS network to make internet communication possible. The product can be supplied with a SMS application, which makes it possible for anyone to start a quick monitoring and controlling of devices through SMS. The integration with the SMS Comfort back office software is another option which makes the time-to-market extremely short for anyone who wants to start with SMS communication.

The DinBox M36 is a perfect solution in combination with PLC's or other industrial products.

antenna FME

2 x RJ-45
for RS-232

AC/DC power supply
100-260Vac / 50-60Hz

SMS / GSM / GPRS

optional backup battery

2 x relais output

1 x analogue input 0 - 4,8 Vdc

4 x digital input
(active/passive possible

Industrial GSM/GPRS modem	Internal power supply
SMS Alarm Unit	Java programmable
Integration with SMS back office	Watchdog (optional)
GPS (optional)	DIN rail housing

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RvA C 024
DNV Certification BV

BAUSCH datacom

Technical specifications

Hardware specifications :

Housing :	M36 DIN rail (EN50022)
Environmental :	-10°C / +50°C
	10% - 75% (non condensing)
Power supply :	Integrated Wide range AC 100-260V 50-60Hz
Optional battery backup :	Lithium 4.9 Wh rechargeable battery, internal load process monitored
GSM modem specifications :	Quad-band 800/900/1800/1900 MHz GSM/GPRS modem (Cinterion TC65i)
	Long term watchdog (Java driven or optional 1 reset every 24 hours)
	Magnetical Dual band FME antenna included
	Integrated 3V SIM card reader
	Maximum power output 2W @ 900MHz / 1W @ 1800MHz
	Communication protocol: GPRS Class 10 / CSD / SMS
	GSM data : asynchronous transparent mode
	Flow control (RTS/CTS – XON/XOFF) and speed buffering
	Automatic format and speed sensing (300 to 115.200 bps)
	AT command set support
	Circuit-switched 14.4 Kbps data and Group 3 FAX (Class 1 and 2)
	Optional: High performance SMS messaging application for 4 x IO and 2 x DO
Status LED's :	Watchdog – GSM – DCD – DTR
Interface :	2 x Serial RS-232 on RJ-45 connector
Digital IN :	Isolated 4 x DI hardware configuration set by jumpers:
	- Active configuration: open or close
	- Dry contact configuration: 0Vdc or 9 – 30Vdc
Digital OUT :	2 x DO - Relay contact (NO & NC), Rated load : 0,5A at 125Vac / 1A at 24Vdc
Analogue IN:	Non-isolated input 0 – 4,8 VDC (other ranges on demand)

Embedded SMS application (optional) :

Device configuration:	Menu driven CLI interface using Terminal program
SMS information:	Heartbeat (configurable), INPUT change (DI1 up to DI4) (up and/or down slope)
	DI1 pulse counter, back-up battery operation (when mains fails), more…
SMS control:	Time driven output set & reset (DO1 & DO2) with optional SMS confirmation
	output change, reply to SMS alarms for confirmation, more…
Date & Time features:	NTP client via GPRS & Time by SMS

Order numbers

109307	DinBox M36 GSM/GPRS with magnetic al antenna
P109307	SMS Dinbox M36 and watchdog, w. SMS application
109310	Serial configuration cable
109311	Internal backup battery
109312	Watchdog chip (not needed with P109307)
109313	Internal power supply 8-30V
108497	External GPS receive with integrated antenna
109314	SMS application with watchdog functionality

SMS DINBox M36 can be perfectly integrated with the SMS Comfort back office software. Please ask our sales desk for information.

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