

Smart Modem Communication for the Industry and Energy market

# DinBox GSM M4

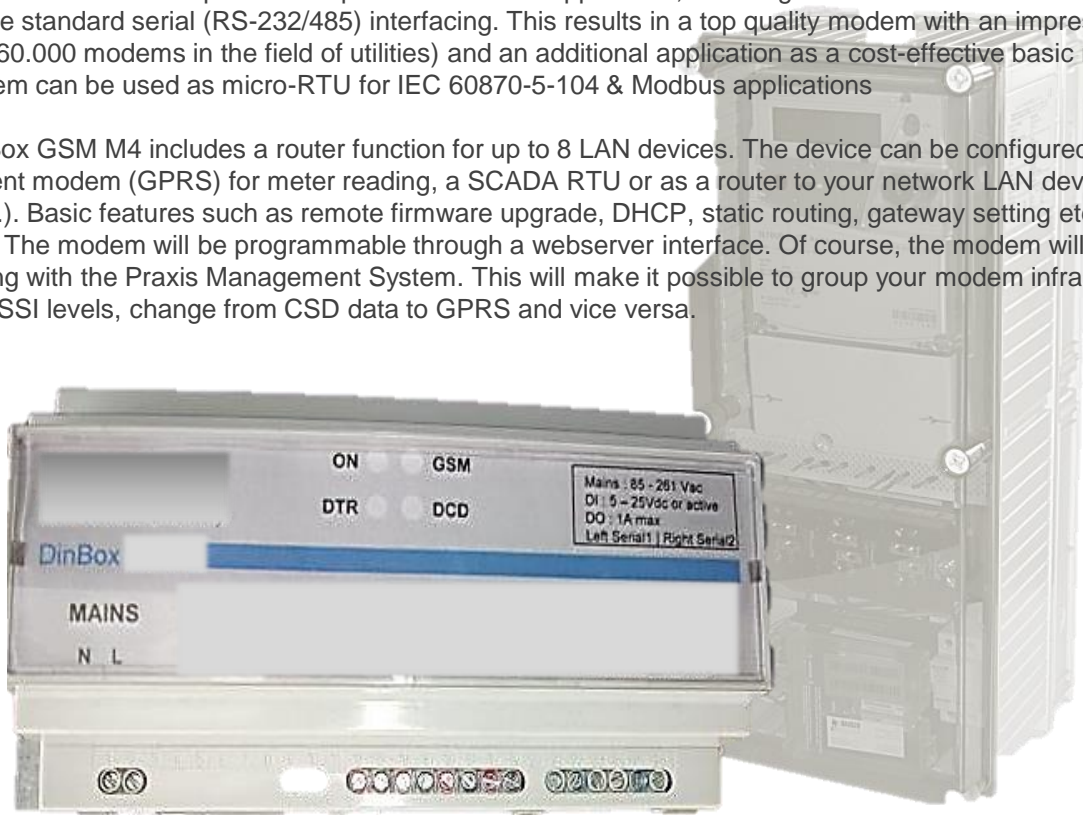
Industrial GSM / GPRS smart modem

*Designed by Bausch Datacom!*

The DinBox GSM M4 modem is the M36 DIN-rail version of the InduBox family and combines the robustness of InduBox GSM IX and M4 with a new feature: the integration of an Ethernet interface and industrial DIN-rail features!

The DinBox GSM M4 builds on the robustness and component quality of 12 years InduBox family. It uses the same crucial features as quality AC power supplies, a watchdog reset, galvanic isolation and extensive testing and certification. The modem opens a complete new market application, the usage of the modem as a basic router next to the standard serial (RS-232/485) interfacing. This results in a top quality modem with an impressive history (approx. 60.000 modems in the field of utilities) and an additional application as a cost-effective basic router. Also this modem can be used as micro-RTU for IEC 60870-5-104 & Modbus applications

The DinBox GSM M4 includes a router function for up to 8 LAN devices. The device can be configured as a transparent modem (GPRS) for meter reading, a SCADA RTU or as a router to your network LAN device (meter, RTU, etc.). Basic features such as remote firmware upgrade, DHCP, static routing, gateway setting etc ... are included. The modem will be programmable through a webserver interface. Of course, the modem will be functioning with the Praxis Management System. This will make it possible to group your modem infrastructure, log the RSSI levels, change from CSD data to GPRS and vice versa.



## Typical Applications

- Remote AMR communication
- Upgrade of non IP meters and loggers
- Static routing to RTU's, meters etc
- Micro RTU for IEC 60870-5-104
- Modbus mapping to IEC 60870-5-104

## Product Highlights

- High immunity testing
- Watchdog reset
- Praxis Modem management
- RS-485/Ethernet interfaces
- 2G GPRS (optional 3G / LTE)

# BAUSCH DATACOM

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## DinBox GSM M4 specifications

The DB GSM M4 is a smart modem, built inside a Bernic 1570 DINrail housing with a GSM/GPRS HL series Sierra Wireless module, external wide range AC power supply, watchdog reset and Ethernet / RS-485 Interfacing.

### Housing

- ° Bernic 9 units M36 series 1570
- ° DINrail EN 50022
- ° Self extinguishing UL 94 V.0
- ° Material: Noryl V0 1550
- ° Overall dimensions: 157 mm x 86 mm x 58 mm

### Connectors

- ° Mains plug and connector (terminal block screw connector)
- ° 10/100 Mb Ethernet: RJ45
- ° RS-485 2/4 wire: fixed screw contact
- ° RS-232: RJ45 - standard Bausch pin-out (8 contacts) -
- ° SMA antenna connector

### Engine

- ° Built-in Sierra Wireless HL series modules:
  - GSM CSD / SMS / 2G GPRS (3G or LTE module optional)
  - GSM data : asynchronous transparent mode
  - ° 3G, LTE are optional modules (same footprint and core pin layout)
- ° Cortex M4 Processor
- ° Mini SIM-card reader
- ° SIM-card accessible from the outside
- ° Praxis Modem Management firmware

### TCP/IP

- ° PAP/CHAP authentication
- ° Network Address Translation
- ° DHCP / routing table 8 LAN

### Configuration

- ° Local configuration: HTML, RS-232
- ° Remote configuration: SMS, Praxis, Telnet, HTML

### (DTE/LAN) interfaces

- ° isolated 2/4 wire RS-485
- ° Ethernet interface
- ° Config. RS-232

### Environmental

- ° - 40°C / + 85°C
- ° Humidity 5-95%

### Power Supply

1. isolated input 85 - 264Vac
2. isolated input 18 - 75Vdc
3. isolated input 9 - 36Vdc
4. direct 9 - 57Vdc
5. direct 9 - 15Vdc

### Reset

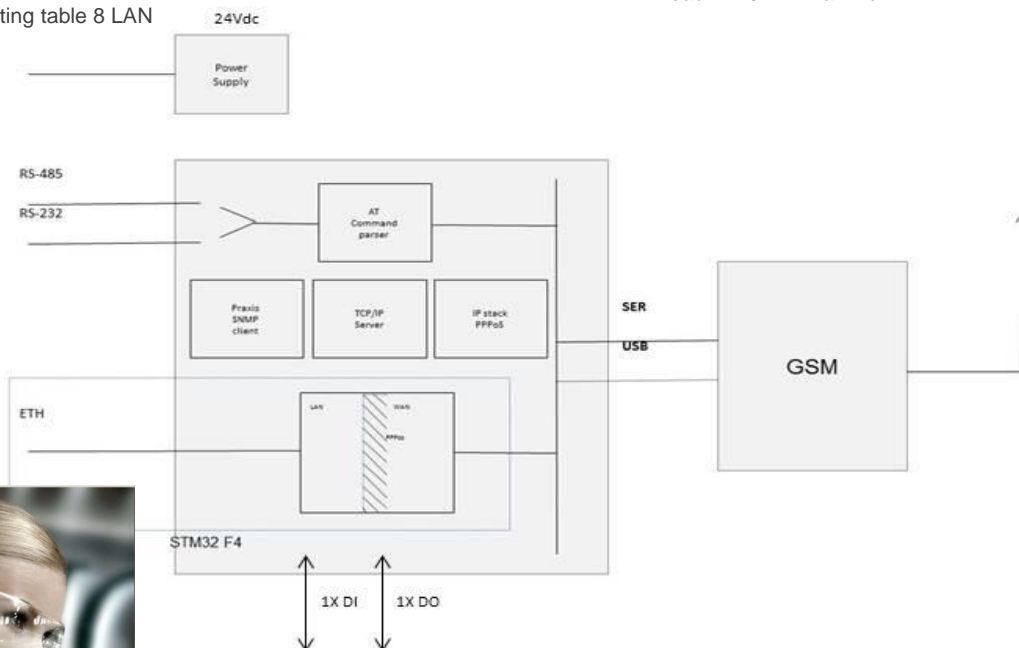
- ° Long term watchdog
- Configurable

### Protocols (optional)

- ° IEC 60870-5-104 slave
- ° Modbus

### DI/DO

- ° DI: 1x 12Vdc
- ° DO: OptoMos PS7241E  
Ron : 35 Ohm maximum  
load : 120 mA maximum



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