

DB RTU M4 _wireless RTU technologies for optimal coverage (LTE Cat. 1)



- **ENCLOSURE**

Dimensions housing: : 172 mm x 35 mm x 135 mm
IP51
Snapslot for easy DINrail mounting
Inflammability class acc. to UL 94: HB

- **INTERFACES & CONNECTORS**

RS-232 non-isolated (used for debugging)
RS-485 / 2-wire galvanically isolated (used for Modbus connection)
LAN 10/100Mbit/s
MMC/SD memory card holder
8x DI active 24 Vdc
2x DO optomos 'solid state', 600 Vpeak / 90 mA
2x AI 0-5 Vdc, non-isolated, 12-bit single ended ADC

- **COMMUNICATION**

Sierra Wireless CF3 HL footprint
3GPP
HL6528 – quad band GSM/GPRS & GSM Data
HL6528RD – quad band GSM/GPRS
HL8518 – dual band HSPA, GSM/GPRS/EDGE
HL8548 – quad band HSPA, GSM/GPRS/EDGE
HL7690 – FDE band LTE Cat-1
HL7692 – FDE band LTE Cat-1 with dual band GSM/GPRS/EDGE fallback
LPWA
HL7800 – LTE Cat-M1, Cat-NB1
HL7802 – LTE Cat-M1, Cat-NB1 with dual band GSM/GPRS fallback
SIM card and/or eSIM
eUICC possibilities
50 ohm FME antenna connector

The DinBox RTU M4 uses IEC 60870-5-104 to communicate as a slave with the SCADA system (master). (Other protocols can be implemented)

The DinBox has 8 active digital inputs, which enable sending events when a change has been detected. Furthermore, it has 2 digital outputs which can be controlled via SCADA commands, and 2 analogue inputs to monitor.

Thanks to the Modbus master implementation and the Modbus-to-IEC104 mapping the DinBox RTU M4 can be used as a gateway to connect other Modbus slave IEDs.

Authentication, integrity and security are provided per application or service running on the RTU by protecting the transport layer of the protocol stack with TLS (Transport Layer Security). Integrating TLS in a non-TLS SCADA setup can be done by installing a TLS Proxy service.

- **FIRMWARE**

IEC 60870-5-104
FTP
Modbus RTU
Modbus TCP
MQTT Client
Alarm by SMS (Option)

- **SECURITY**

TLS 2.0

- **ENVIRONMENT**

Operating Temperature: -20 C +60 C
Operating Humidity 95% non-condensing

- **DIAGNOSTICS**

Detailed debug and trace information on different levels via different interfaces
4 status LEDs

- **POWER SUPPLY**

85-264 AC or 9-25V DC
Watchdog reset
Supercap backup or NiMH rechargeable battery

- **CERTIFICATION**

CE