



## **REX 250, Ethernet Router**

REX 250 LTE, 4 x LAN (switch)/1 x WAN/1 x LTE modem

- ■Remote access to Ethernet-enabled devices such. PLC, HMI, IP camera
- ■WAN, WIFI, 3G or LTE variants available
- ■WAN interface for fail-over operation (3G, LTE and Wifi)
- ■Space saving and compact
- ■Integrated firewall
- ■Integrated 4-port LAN switch
- ■Digital inputs and outputs for connection establishment, status display and alarm
- Easy and fast configuration via the myREX24 VPN portal
- ■Read, visualize and log data from PLC
- Direct connection of S7-MPI / PROFIBUS devices
- ■Free S7-MPI / PROFIBUS driver
- ■Remote control of remote devices via Internet (RS232)
- ■Remotely maintain USB devices over the Internet

The REX 250 routers are designed for operation in conjunction with the myREX24 V2 portal: The complete parameterization and remote maintenance is carried out via the portal. In addition to remote maintenance, the REX 250 routers can also read data from the PLC, visualize and generate alarms. For remote maintenance and data transmission, the industrial router uses an encrypted VPN tunnel based on the secure OpenVPN protocol. The REX 250 routers also enable remote maintenance and data access to PLCs via an MPI / PROFIBUS and via an RS232 interface. With the 4 digital inputs, alarms can be sent via SMS and email via the myREX24 V2 Portal. The 2 digital outputs can change the system states of the router, e.g. with a lamp on the control cabinet, or can be activated via the portal. The USB host interface available on all devices enables the connection of USB device devices (eq programming interface of a drive) via the remote maintenance tunnel (USB-over-IP).

The REX 250 LTE has an LTE modem, which connects to the myREX24 V2 portal. The WAN interface, which is also available, can form a fail-over network in conjunction with the 4G modem. The integrated 4-port switch can be used to connect the Ethernet nodes of the machine to the router on the available RJ45 ports.

The LTE modem used supports use in Europe and Asia. For using the router in North America, please use the "REX 100 with LTE modem for North America" (700-875-LTE11). In general, before using an LTE router, please compare the LTE frequency bands of the selected device with the supported frequency bands of the provider in the country of use. We will be happy to help you.

Please use a standard cell phone data plan when selecting a cell phone contract. Please avoid IoT tariffs, as these are often only designed for small data volumes or transmission speeds.

## **Technical specifications**

General information	
Order number	700-878-LTE02
Article name	REX 250 LTE, 4 x LAN (switch)/1 x WAN/1 x LTE modem
Scope of delivery	REX 250 LTE, Quick Start Guide
Dimensions (DxWxH)	35 x 100 x 73 mm
Weight	Approx. 250 g



CSM-Modem	Digital inputs   Type	4 pieces   DIN EN 61131-2 Type 3
GSM-Modem         Multiband GSM/GPRS/WCDMA/LTE Data Interface           Antenna terminal         SMA socket (Male thread)           SIM card type         Standard SIM 1.8 V/3 V           GSM frequency bands         GSM/GPRS/EDGE: 850, 900, 1800, 1900           UMTS frequency bands         B8 (900), 82 (2100)           Data transmistion orte         HSSPA+ (Uplink max. 5.76 Mbps   Downlink max. 42.0 Mbps); ITE (Uplink max. 5.07 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.00 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.76 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.76 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 5.76 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 50 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 50 Mbps   Downlink max. 150 Mbps); ITE (Uplink max. 50 Mbps   Downlink max. 150 Mbps   Downlink max. 1	Digital outputs   electricity	2 pieces   max. 0.5 A for each output
Antenna terminal  Antenna terminal  SMA socket (Male thread)  SIM card type  Standard SIM 1.8 V/3 V  SCBM frequency bands  GSM/CPRS/EPGE-850, 900, 1800, 1900  UMTS frequency bands  B8 (900), B2 (2100)  Transmit power  Class 1, E2, 3, 4  Data transmission rate  HasPAH (Uplink max. 5.76 Mbps   Downlink max. 42.0 Mbps);  LTE (Uplink max. 50 Mbps   Downlink max. 150 Mbps;  LTE (Uplink max. 50 Mbps   Downlink max. 150 Mbps;  LTE (Uplink max. 50 Mbps   Downlink max. 150 Mbps;  LTE (Uplink max. 50 Mbps   Downlink max. 150 Mbps;  LTE (Uplink max. 50 Mbps   Downlink max. 150 Mbps;  LTE (Uplink max. 50 Mbps   Downlink	GSM modem	
Standard SIM 1.8 V/3 V	GSM-Modem	Multiband GSM/GPRS/WCDMA/LTE Data Interface
GSM/GPRS/EDGE: 850, 900, 1800, 1900   UMTS frequency bands   B8 (900), B2 (2100)   Transmit power	Antenna terminal	SMA socket (Male thread)
UMTS frequency bands	SIM card type	Standard SIM 1.8 V/3 V
Transmit power	GSM frequency bands	GSM/GPRS/EDGE: 850, 900, 1800, 1900
Data transmission rate	UMTS frequency bands	B8 (900), B2 (2100)
LTE (uplink max. 50 Mbps   Downlink max. 150 Mbps)	Transmit power	Class 1, E2, 3, 4
WAN interface   1	Data transmission rate	
Number   1   10-Base-T/100-Base-T   10-Base-T   10-Base-Tale-T	LTE frequency bands (MHz)	800 (B20), 900 (B8), 1800 (B3), 2100 (B1), 2600 (B7)
Topse	WAN interface	
Connection R 45 socket  Transmission rate 10/100 Mbps  LAN interface  Number 4  4  Type 10-Base-T/100-Base-T  Connection R 45 socket  Transmission rate 10/100 Mbps  USB interface  Number 1  The protocol USB 2.0 host  Connection USB-A port  Serial Interface  Type R5-232/422/485 (software switchable)  Protocol transparent access via virtual COM port  Transmission rate up to 12 Mbps  Interface  Transmission rate up to 12 Mbps  Interface R5-232/485 (software switchable)  Status indicator R5-232/485 (software switchable)  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Interface R5-232/485 (software switchable)  Socket, SUB-D, 9-pin  Status indicator Up to 12 Mbps  Interface R5-232/485 (software switchable)  Socket, SUB-D, 12 Mbps  Interface R5-232/485 (software switchable)  Interface R5-232/485 (software switchable)  Interface R5-232/485 (software switchable)  Inter	Number	1
Transmission rate	Туре	10-Base-T/100-Base-T
Number 4 Type 10-Base-T/100-Base-T Connection R 45 socket Transmission rate 10/100 Mbps  USB interface Number 1 Protocol USB 2.0 host Connection USB-A port Serial Interface  Transmission rate 300 bauds 115 k bauds PROFIBUS interface  Transmission rate up to 12 Mbps Interface Transmission rate up to 12 Mbps Interface  Transmission rate 10 Loss 2.3485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds PROFIBUS interface Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Connection Socket, SUB-D, 9-pin Status indicator 8 LEDs, function status 10 LEDs, Ethernet status Voltage supply 24 V DC, 18 28 V DC Current draw max. 90 mA at DC 24 V Ambient conditions  Ambient temperature 40 °C +75 °C Transport and storage temperature 40 °C +85 °C Relative air humidity 95% r. H. without condensation Protection rating IP20 Certifications CE C	Connection	RJ45 socket
Number 4 Type 10-Base-T/100-Base-T Connection R 45 socket 10/100 Mbps USB interface Number 1 Protocol USB 2.0 host USB-A port Serial Interface Type RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds PROFIBUS interface Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds PROFIBUS interface Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Socket, SUB-D, 9-pin Status indicator Status indicator 8 LEDs, function status 10 LEDs, Ethernet status Voltage supply 24 V DC, 18 28 V DC max. 90 mA at DC 24 V Ambient conditions Ambient conditions Ambient conditions  Ambient temperature 40 °C +75 °C Transport and storage temperature 40 °C +85 °C Relative air humidity 95% r. H. without condensation Protection rating IP20 Certifications CE CE ROHS	Transmission rate	10/100 Mbps
Type 10-Base-T/100-Base-T Connection R 45 socket 10/100 Mbps  USB Interface  Number 1 1 Protocol USB 2.0 host Connection USB-A port  Serial Interface  Type RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds  PROFIBUS interface  Transmission rate up to 12 Mbps Interface  RS-232/485 (software switchable)  Socket, SUB-D, 9-pin Status indicator 8 LEDs, function status 10 LEDs, Ethernet status Voltage supply 24 V DC, 18 28 V DC Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C Transport and storage temperature -40 °C +85 °C Relative air humidity 95% r. H. without condensation Ple20 Certifications CE CE ROHS  Ves	LAN interface	
Connection RJ45 socket  Transmission rate 10/100 Mbps  USB interface  Number 1 Protocol USB 2.0 host  Connection USB-A port  Serial Interface  Type RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port  Transmission rate 300 bauds 115 k bauds  PROFIBUS interface  Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable)  Socket, SulB-D, 9-pin Status indicator Status indicator 10 LEDs, Ethernet status  Voltage supply 24 V DC, 18 28 V DC  Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C  Transport and storage temperature -40 °C +85 °C  Relative air humidity 95% r. H. without condensation Protection rating IP20  Certifications CE  CE  RRHS	Number	4
Transmission rate  USB interface  Number  1 Protocol USB 2.0 host Connection USB-A port  Serial Interface  Type RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds  PROFIBUS interface  Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Socket, SUB-D, 9-pin Status indicator Status indicator USB-A port  Up to 12 Mbps Interface RS-232/485 (software switchable) Connection Socket, SUB-D, 9-pin Status indicator ULEDs, Ethernet status Voltage supply 24 V DC, 18 28 V DC Current draw max. 90 mA at DC 24 V Ambient conditions  Ambient temperature 40 °C +75 °C Transport and storage temperature 40 °C +85 °C Relative air humidity 95% r. H. without condensation Pollution degree 2 Protection rating IP20 Certifications CE  CE ROHS	Туре	10-Base-T/100-Base-T
USB interface  Number	Connection	RJ45 socket
Number   1 Protocol	Transmission rate	10/100 Mbps
Protocol Connection USB 2.0 host Connection Serial Interface Type RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds PROFIBUS interface Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Socket, SUB-D, 9-pin Status indicator Ambient conditions Ambient conditions Ambient temperature -40 °C +75 °C Transport and storage temperature -40 °C +85 °C Relative air humidity 95% r. H. without condensation Pollution degree 2 Protection rating IP20 Certifications CE CE ROHS	USB interface	
Connection  Serial Interface Type  RS-232/422/485 (software switchable) Protocol  transparent access via virtual COM port Transmission rate  300 bauds 115 k bauds  PROFIBUS interface Transmission rate  up to 12 Mbps Interface  RS-232/485 (software switchable)  Connection  Socket, SUB-D, 9-pin  Status indicator  Status indicator  Status indicator  Status indicator  Status indicator  SUB-D, function status 10 LEDs, Ethernet status  Voltage supply  24 V DC, 18 28 V DC  Current draw  Ambient conditions  Ambient temperature  -40 ° C +75 ° C  Transport and storage temperature  -40 ° C +85 ° C  Relative air humidity  95% r. H. without condensation  Pollution degree  2 Protection rating  Certifications  CE  CE  CE  ROHS	Number	1
Serial Interface Type RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds PROFIBUS interface Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Connection Socket, SUB-D, 9-pin Status indicator 8 LEDs, function status 10 LEDs, Ethernet status Voltage supply 24 V DC, 18 28 V DC Current draw max. 90 mA at DC 24 V Ambient conditions Ambient temperature -40 °C +75 °C Transport and storage temperature -40 °C +85 °C Relative air humidity 95% r. H. without condensation Pollution degree 2 Protection rating IP20 Certifications CE CE ROHS Yes	Protocol	USB 2.0 host
RS-232/422/485 (software switchable) Protocol transparent access via virtual COM port Transmission rate 300 bauds 115 k bauds  PROFIBUS interface  Transmission rate up to 12 Mbps Interface RS-232/485 (software switchable) Connection Socket, SUB-D, 9-pin  Status indicator 8 LEDs, function status 10 LEDs, Ethernet status Voltage supply 24 V DC, 18 28 V DC Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C Transport and storage temperature -40 °C +85 °C Relative air humidity 95% r. H. without condensation Pollution degree 2 Protection rating IP20 Certifications CE  CE CE ROHS Yes	Connection	USB-A port
Protocol transparent access via virtual COM port  Transmission rate 300 bauds 115 k bauds  PROFIBUS interface  Transmission rate up to 12 Mbps  Interface RS-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator 8 LEDs, function status 10 LEDs, Ethernet status  Voltage supply 24 V DC, 18 28 V DC  Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C  Transport and storage temperature -40 °C +85 °C  Relative air humidity 95% r. H. without condensation  Pollution degree 2  Protection rating IP20  Certifications CE  CE  ReHS  Yes	Serial Interface	
Transmission rate  PROFIBUS interface  Transmission rate  Up to 12 Mbps  Interface  RS-232/485 (software switchable)  Socket, SUB-D, 9-pin  Status indicator  8 LEDs, function status 10 LEDs, Ethernet status  Voltage supply  24 V DC, 18 28 V DC  Current draw  Ambient conditions  Ambient temperature  -40 °C +75 °C  Transport and storage temperature  -40 °C +85 °C  Relative air humidity  95% r. H. without condensation  Pollution degree  2  Protection rating  LEDs, function status 10 LEDs, Ethernet status  24 V DC, 18 28 V DC  max. 90 mA at DC 24 V  Ambient conditions  -40 °C +75 °C  -40 °C +85 °C  95% r. H. without condensation  Pollution degree  2  Protection rating  LP20  Certifications  CE  CE  ReHS	Туре	RS-232/422/485 (software switchable)
PROFIBUS interface Transmission rate Interface RS-232/485 (software switchable) Connection Socket, SUB-D, 9-pin Status indicator Status indica	Protocol	transparent access via virtual COM port
Interface RS-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator 8 LEDs, function status 10 LEDs, Ethernet status  Voltage supply 24 V DC, 18 28 V DC  Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C  Transport and storage temperature -40 °C +85 °C  Relative air humidity 95% r. H. without condensation  Pollution degree 2  Protection rating IP20  Certifications CE  CE  ReHS Yes	Transmission rate	300 bauds 115 k bauds
Interface RS-232/485 (software switchable)  Connection Socket, SUB-D, 9-pin  Status indicator 8 LEDs, function status 10 LEDs, Ethernet status  Voltage supply 24 V DC, 18 28 V DC  Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C  Transport and storage temperature -40 °C +85 °C  Relative air humidity 95% r. H. without condensation  Pollution degree 2  Protection rating IP20  Certifications CE  CE  ReHS Yes	PROFIBUS interface	
Connection  Socket, SUB-D, 9-pin  8 LEDs, function status 10 LEDs, Ethernet status  Voltage supply  24 V DC, 18 28 V DC  Current draw  max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature  -40 °C +75 °C  Transport and storage temperature  -40 °C +85 °C  Relative air humidity  95% r. H. without condensation  Pollution degree  2  Protection rating  IP20  Certifications  CE  CE  ROHS  Yes	Transmission rate	up to 12 Mbps
Status indicator  8 LEDs, function status 10 LEDs, Ethernet status  Voltage supply  24 V DC, 18 28 V DC  Current draw  max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature  -40 °C +75 °C  Transport and storage temperature  -40 °C +85 °C  Relative air humidity  95% r. H. without condensation  Pollution degree  2  Protection rating  IP20  Certifications  CE  CE  ROHS  Yes	Interface	RS-232/485 (software switchable)
Voltage supply  24 V DC, 18 28 V DC  Current draw  Ambient conditions  Ambient temperature  -40 °C +75 °C  Transport and storage temperature  Relative air humidity  Pollution degree  Protection rating  Certifications  CE  ReHS  Yes	Connection	Socket, SUB-D, 9-pin
Current draw max. 90 mA at DC 24 V  Ambient conditions  Ambient temperature -40 °C +75 °C  Transport and storage temperature -40 °C +85 °C  Relative air humidity 95% r. H. without condensation  Pollution degree 2  Protection rating IP20  Certifications CE  CE  ROHS Yes	Status indicator	
Ambient conditions  Ambient temperature -40 °C +75 °C  Transport and storage temperature -40 °C +85 °C  Relative air humidity 95% r. H. without condensation  Pollution degree 2  Protection rating IP20  Certifications CE  CE  ROHS Yes	Voltage supply	24 V DC, 18 28 V DC
Ambient temperature  -40 °C +75 °C  Transport and storage temperature  -40 °C +85 °C  Relative air humidity  95% r. H. without condensation  Pollution degree  2  Protection rating  IP20  Certifications  CE  CE  RoHS  Yes	Current draw	max. 90 mA at DC 24 V
Transport and storage temperature  -40 °C +85 °C  Relative air humidity  95% r. H. without condensation  Pollution degree  2  Protection rating  IP20  Certifications  CE  CE  ROHS  Yes	Ambient conditions	·
Relative air humidity  95% r. H. without condensation  Pollution degree  2  Protection rating  IP20  Certifications  CE  RoHS  Yes	Ambient temperature	-40 °C +75°C
Pollution degree 2 Protection rating IP20 Certifications CE CE RoHS Yes	Transport and storage temperature	-40 °C +85 °C
Protection rating IP20 Certifications CE CE ROHS Yes	Relative air humidity	95% r. H. without condensation
Certifications CE  CE  RoHS Yes	Pollution degree	2
Certifications CE  CE  RoHS Yes	Protection rating	IP20
RoHS Yes	Certifications	CE
	CE	'
REACH Yes	RoHS	Yes
	REACH	Yes