



Technical Data

V 6.2 DR02 - from HW03 - en | July 6th, 2020

RKH 210, RKH 216, RKH 235, RKH 259EU, RKH 259 AT&T







PROG. CNTLR. E482663



1 Technical Data

mbNET.rokey industrial router

RKH 210, RKH 216, RKH 235, RKH 259 EU, RKH 259 AT&T - from Hardware version: **HW 03** You can find the hardware version on the device rating plate.

Housing dimensions and views

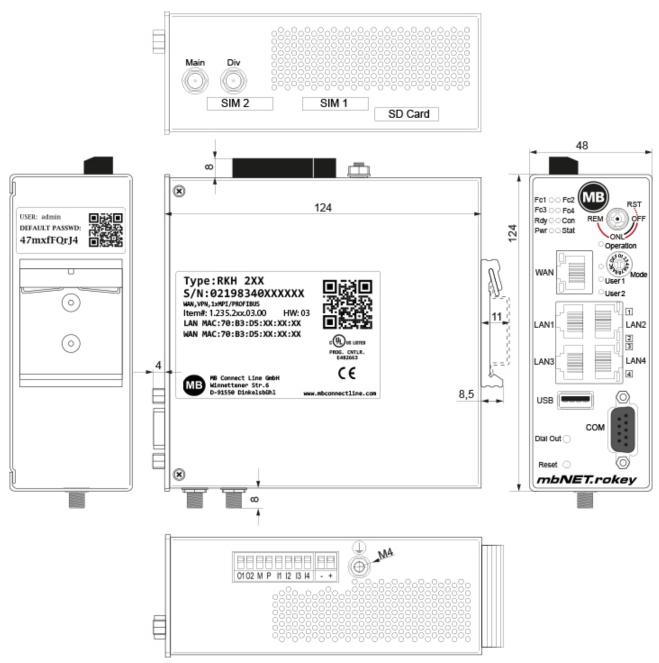


Image 1: Devices and interfaces vary depending on the device type.



Release note

Version	Date	Comment
V 6.2	Febr. 26 th , 2020	Previous version: V 1.0 from Nov. 2 nd , 2018 Correction of the current consumption: old = 1300 mA => new = 500mA Add the performance data for new LTE module, for devices with hardware version HW04.
V 6.2 DR01	Apr. 22 nd , 2020	Add processor performance data.
V 6.2 DR02	July 6 th , 2020	Adding the transmission power for radio modules.

General Data

Performance data		
Voltage === V (DC)	$10-30\ V$ DC (ext. power supply or SELV power supply, 10-30 V DC, max. 40 A)	
Current consumption	max. 500 mA @ 24 V	
Dissipated power	max. 6 W	
Random Access Memory	512 MB	
Processor	Devices with hardware version HW03 : ARM Cortex®-A8 up to 600MHz Devices from hardware version HW04 : ARM Cortex®-A8 up to 1GHz	
IP Protection class	IP 30* * at full occupancy of all connections and interfaces. Alternatively, unused interfaces can be covered with dust protection plugs.	
Area of use	Dry environment	
Temperature (operating)	-40 – +75 °C	
Temperature (storage)	-40 – +85 °C	
Humidity	0 – 95% non-condensing	
Real-time clock	In the event of a power failure, the date and time are maintained for up to 7 days (depending on the ambient temperature).	
Dimensions (max.)	48 mm x 137 mm x 140 mm (W x D x H)	
Weight (max.)	650 g	
Housing/material	Metal	
Installation	DIN-top hat rail mounting	



I/Os and standard interfacesGeneral Data

4 pieces, 1030 V DC (electrically isolated), (low 0 – 3.2 V DC, high 8 – 30 V DC)
2 pieces, 10-30 V DC (electrically isolated), to a maximum of 1.5 A per output
10/100MBit/s full and half duplex operation, automatic detection patch cable/cross-over cable (auto detection)
4 pieces, 10/100MBit/s full and half duplex operation, automatic detection patch cable/cross-over cable (auto detection)
USB Host 2.0
Für SD cards (32 x 24 x 2.1 mm) SDHC max. 32 GB; FAT/FAT32 or for holding mbEDGE *.

VPN

VPN protocol	IPsec/PPTP/OpenVPN, 64 Tunnel
Encryption method	Blowfish, AES, DES/3DES
Encryption algorithms	MD5, SHA1
Authentication	Pre-Shared-Key, X.509

Network/security

Firewall	1:1 NAT, IP-Filter, port forwarding, stateful inspection
IP router	NAT-IP, TCP/IP routing, IP forwarding
Services	DHCP server, DHCP client, DNS server, NTP client, PPP server, DynDNS
Time levelling	NTP server

Optional Interfaces

COM	MPI/PROFIBUS - 12 MBit/s (RKH 235) or
	RS-232/485 (software-switchable) (RKH 210)
SIM card slots	2 pieces SIM card reader with ejector (for mini-SIM)



Communication

Devices with LTE (4G) modem EU (RKH 259 EU)

Devices with hardware version HW 04	
Countries where used	Europe
GSM/GPRS/EDGE	900 (B8), 1800 (B3) MHz; max. 236 kbps
HSxPA	900 (B8), 2100 (B1) MHz; Downlink max. 42 Mbps, Uplink max. 5,76 Mbps
LTE	800 (B20), 900 (B8),1800 (B3), 2100 (B1), 2600 (B7) MHz; Downlink max. 150 Mbps, Uplink max. 50 Mbps
Transmit output power	CLass 3 (0.2 W, 23 dBm) @ LTE CLass 3 (0.25 W, 23 dBm) @ 3G Class 4 (2 W) @ GSM 900 Class 1 (1 W) @ DCS 1800
Antenna connections	2 pieces SMA socket
TAC	35162207

Devices with hardware version HW 03	
Countries where used	Europe, Australia
GSM/GPRS/EDGE	900, 1800 MHz; max. 236 kbps
HSxPA	850, 900, 2100 MHz; Downlink max. 42 Mbps, Uplink max. 5,76 Mbps
LTE	800 (B20), 1800 (B3), 2600 (B7) MHz; downlink max. 100 Mbps, uplink max. 50 Mbps
Transmission output power	Class 4 (2 W, 33 dBm) @ GSM 850 / 900 Class 1 (1 W, 30 dBm) @ GSM 1800 / 1900 Class E2 (0.5 W, 27 dBm) @ EDGE 850 / 900 Class E2 (0.4 W, 26 dBm) @ EDGE 1800 /1900 Class 3 (0.25 W, 24 dBm) @ UMTS Class 3 (0.2 W, 23 dBm) @ LTE
Antenna connections	2 pieces SMA socket O
TAC	35985205



Devices with LTE (4G) modems - AT&T (RKH 259 AT&T)

NOTICE

The device type RKH 259 AT&T bears no CE marking and may not be used or put into operation in the European economic area (EEA)!

Countries where used	North America
GSM/GPRS/EDGE	850, 1900 MHz; max. 236 kbps
HSxPA	1900 (B2), 850 (B5) MHz; Downlink max. 21 Mbps, Uplink max. 5,76 Mbps
LTE	1900 (B2), AWS 1700 (B4), 850 (B5), 700 (B17) MHz; downlink max. 100 Mbps, uplink max. 50 Mbps
Transmission output power	Class 4 (2 W, 33 dBm) @ GSM 850 / 900 Class 1 (1 W, 30 dBm) @ GSM 1800 / 1900 Class E2 (0.5 W, 27 dBm) @ EDGE 850 / 900 Class E2 (0.4 W, 26 dBm) @ EDGE 1800 /1900 Class 3 (0.25 W, 24 dBm) @ UMTS Class 3 (0.2 W, 23 dBm) @ LTE
Antenna connections	2 pieces SMA socket O
FCC	Contains FCC ID: R17LE910NA

Markings / Listings / Certifications





PROG. CNTLR.

SIMPLIFIED EU DECLARATION OF CONFORMITY

MB connect line GmbH hereby declares that the radio system type RKH 259 EU corresponds to the 2014/53/ EU directive.

A copy of the EU declaration of conformity is available at the following Internet address:

www.mbconnectline.com

NOTICE

The device type RKH 259 AT&T is **not** CE marked and may not be used or put into service in the European Economic Area (EEA).





MB connect line GmbH offers universal solutions for worldwide remote maintenance of machines and equipment. The specialists at MB connect line can draw on years of experience and extensive know-how.

MB connect line GmbH

Fernwartungssysteme Winnettener Str. 6 91550 Dinkelsbühl GERMANY

Phone+49 (0) 700 MBCONNECT +49 (0) 700 622 666 32

MB connect line Inc.

4320 Winfield Road, Suite 200 Warrenville, IL 60555 USA Phone +1-630-797-0093 center.usa@mbconnectline.com

info@mbconnectline.com www.mbconnectline.com

Despite a detailed description of the device and its functions, we cannot be held liable for the correctness of the content. The latest information can be obtained on our homepage. We welcome any comments or suggestions for improvement.

Copyright © MB connect line GmbH 1997 - 2020