

# MC100

## Gateway Audio



**made  
in  
Germany**



The MC100 Audio Gateway has an integrated 4G LTE modem and an Ethernet interface. It allows easy connection of connected devices to the Internet using mobile network.

Thanks to Node-RED™, a simple graphic programming tool, or other programming tools, the data recorded by multiple measuring devices can be read wirelessly. Data can then, using a wide range of pre-configured transmission protocols, be uploaded to company servers or cloud services.

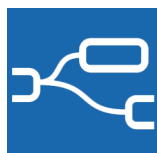
The MC100 Audio Gateway is also equipped with GPS, WLAN and Audio interface.

### Key features & functionalities:

- Programmable 4G LTE Terminal/Gateway
- Quectel EC21-E module integrated
- Out of the box ready for mobile Internet communication
- OpenWrt 24.10 based Linux distribution, Kernel 6.6.93, optimized for the ARM-based MC100 Gateway
- Node-RED™ – flow-based programming tool pre-installed
- Supports comprehensive cloud and server protocols
- Configuration via web interface
- E1 approval



4G LTE



Node-RED™



OpenWrt Linux



Cloud-Service



Audio



WLAN



GPS



10/100 MBit/s  
Ethernet



RS-232



USB 2.0



RS-485



CAN 2.0B



2in/2out



E1 approval  
ECE R10/R118

# MC100 Gateway Audio

## Technical Data

General	Description	193250
Type	Wireless 4G LTE gateway with audio interfaces	x
Dimensions (W x H x D)	120 x 75 x 35 mm	x
Weight	approx. 160 g	x
Supply voltage	8 to 30 V DC	x
Operation temperature	-20 °C to +70 °C	x
Housing	Plastic	x
Protection class	IP20	x
Mounting	Wall mounting (DIN rail adapter optional)	x
Wireless module embedded	Quectel EC21-E	x
<b>Mobile</b>		
Supporting networks	<b>LTE Cat1:</b> Bands: 1, 3, 5, 7, 8, 20	x
	<b>WCDMA:</b> Bands: 1, 5, 8	x
	<b>GSM/GPRS/EDGE:</b> Bands: 3, 8	x
Transmission rates LTE	Up to 5 Mbps uplink and 10 Mbps downlink	x
Transmission rates HSPA+	Up to 5.76 Mbps uplink and 42 Mbps downlink	x
Transmission rates WCDMA	Up to 384 kbps uplink and 384 kbps downlink	x
Transmission rates EDGE	Up to 236.8 kbps uplink and 296 kbps downlink	x
Transmission rates GPRS	Up to 85.6 kbps uplink and 107 kbps downlink	x
Antenna connections	SMA (female)	x
<b>Controller, Memory and OS</b>		
Controller	ARM Cortex-A7 NXP i.MX 6 UltraLite, 528 MHz	x
RAM	512 MB	x
Flash	4 GB	x
OS	OpenWrt 24.10 based Linux distribution	x
Programmable	C/C++, Python™, Java™, Node-RED™ or others	x
<b>Interfaces</b>		
Power	Plug-in screw-type terminal	1
Ethernet	10/100 MBit/s	1
RS232	DB9 (RX,TX,RTS,CTS)	1
RS485	Not galvanic isolated, plug-in screw-type terminal	1
USB	USB 2.0 Type A	1
Digital inputs	Galvanic isolated, special common GND (IGND), 0 - 30 V, threshold 6 V	2
Digital outputs	Galvanic isolated, special common GND (IGND), solid state relays, 300 mA max low-side-switch to IGND	2
CAN	CAN 2.0B, plug-in screw-type terminal	1
LED 1	Power	x
LED 2 and 3	Free programmable	x
LED 4	GSM	x
SIM	Mini SIM	x
SD card	Micro SD, up to 32 GB (internal)	x
GPS	GPS/GNSS (GLONASS/BeiDou/Galileo)	x
WLAN	802.11 b/g/n	x
Audio	M8, 4pin	x
<b>Other properties</b>		
Configurations	Basic configuration via web interface, SSH	x
RS232 console port	on RS232 interface	x
E1 approval		x
<b>Delivery includes</b>		
Wall adapter	Plastic holder	x
Connectors	WR-TBL Series 361 - 3.81 mm vertical cable entry plug (Würth)	x
Printed documentation	Quick Guide	x

Mistakes and changes are reserved.

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## Accessories

Accessories		Part No.
Top-hat rail bracket KIT	for DIN rail mounting	100046
Power supply / Mount Adapter EU	18 W AC/12 V DC 1,5A	100909
Network cable	Cat. 5, 1 m	100810
Data cable	Adapter cable for ASC1, RS232 (SuB D9, female) - 1m - 3pin plug	162500
MiMo wall antenna	5G/4G/MIMO/3G/2G, 2x 2 m RG174, 2x SMA (male)	193600
Portable antenna	GSM/UMTS/LTE/WLAN, SMA (male)	101292
GPS antenna	1575.42 MHz, 2 dBi, 3 m RG174 SMA (male), magnetic	101259

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