

MC100 Audio Gateway



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.

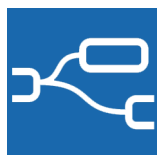
The MC100 Audio Gateway is also equipped with GPS, WLAN and Audio interface.

Key features & functionalities:

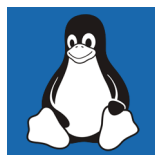
- Programmable 4G LTE Terminal/Gateway
- Quectel EC21-E module integrated
- Out of the box ready for mobile Internet communication
- OpenWrt 21 based Linux distribution, Kernel 5.4.154, optimized for the ARM-based MC100 Gateway
- Node-RED™ – flow-based programming tool pre-installed
- Supports comprehensive cloud and server protocols
- Configuration via web interface
- E1 approval (optional)



4G LTE



Node-RED™



OpenWrt Linux



Cloud-Service



Audio



WLAN



GPS



10/100 MBit/s Ethernet



RS232



USB 2.0



RS485



CAN 2.0B



2in/2out

MC100 Audio Gateway

Technical Data

General	Description	
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
Mobile		
Supporting networks	LTE Cat1: Bands: 1, 3, 5, 7, 8, 20	x
	WCDMA: Bands: 1, 5, 8	x
	GSM/GPRS/EDGE: 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
Controller, Memory and OS		
Controller	ARM Cortex-A7 NXP i.MX 6 UltraLite, 528 MHz	x
RAM	512 MB	x
Flash	4 GB	x
OS	OpenWrt Linux	x
Programmable	C/C++, Python™, Java™, Node-RED™ or others	x
Interfaces		
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 64 GB (internal)	x
GPS	GPS/GNSS (GLONASS/BeiDou/Galileo)	x
WLAN	802.11 b/g/n	x
Audio	M8, 4pin	x
Other properties		
Configurations	Basic configuration via web interface, SSH	x
RS232 console port	on RS232 interface	x
E1 approval		optional
Delivery includes		
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.