rapidM2M C32x 2G/M1/NB1 World

CE

Specifications

Universal inputs	3 x analogue or digital
	• 0...20mA / 4...20mA
	• 0...2V / 0...10V
	• PWM
	• Frequency
	• Digital/counter
Serial interface	1 x RS485 (2-wire)
	1 x CAN / CAN FD
	1 x RS232 (4-wire)
Outputs	2 x isolated switch contact [1]
Voltage supply	V_{in}: 9...32VDC
Operating temp.	-20...+60°C
Integr. buffer battery	Li-Po with 500mAh
Antenna connectors	2 x SMA-F (mobile network "Main" and "Aux")
Protection class	IP20
USB interface	1 x USB device [2]
Data memory	3MB internal flash memory
Dimensions (WHD)	70 x 92 x 63mm
Weight	190g
Data transmission	2G/M1/NB1 World:
	2G GPRS 900MHz / 1800MHz
	2G GPRS 850MHz / 1900MHz
	LTE B1, B2, B3, B4, B5, B8, B12, B13, B20, B25, B26, B28, B66, B85
SIM	Integrated SIM chip
Display	RGB-LED (freely usable)
Operation	Button (freely usable)

[1] parallel connection of a PhotoMOS relay (high switching frequencies) and a mechanical relay (high switching currents)

[2] only for debugging, script development and production

Application

The rapidM2M C32x 2G/M1/NB1 World is a compact, freely programmable device for recording, processing and transmitting signals. It is the perfect multi-functional tool for measurement and control tasks in telecontrol engineering and combines IoT-SPS, router, firewall and data transmission in one device. The universal inputs can be used to record data from analogue sensors and signal transmitters. The RS232, RS485 and CAN interface enables communication with machines, control units or sensors with digital interfaces. 2 isolated switch contacts are available for the control of actuators. The device also has an integrated rechargeable buffer battery that enables a message to be issued in the event of a supply voltage failure.

For bidirectional data exchange with the server a mobile connection is used.

The core element of the rapidM2M C32x 2G/M1/NB1 World is the intelligent rapidM2M M22x 2G/M1/NB1 World. The device is fitted with the rapidM2M operating system ex-works and is fully functional. The application program can be created within a few hours with the help of the rapidM2M Studio.

Product characteristics

- Programmable using rapidM2M Studio
- Universal inputs for digital and analogue signals
- RS232, RS485 and CAN interface
- Isolated switch contact outputs
- Integrated rechargeable buffer battery with charge controller
- Measurement value storage on the device
- Data transmission to the server via mobile network
- Configuration of the device via web portal
- Very low commissioning and operating costs
- Hardware real-time clock
- Integrated durable SIM chip

Scope of supply	Order no.
rapidM2M C3xx Base	300933
rapidM2M M22x 2G/M1/NB1 World [3]	300745

[3] inserted in the rapidM2M C3xx Base during production.

One of the following antennae is essential for operation:

- Dome antenna multi band SMA-M 3m(301212)
- Flat antenna Disc Multi Band 2xSMA-M 2m (301090)