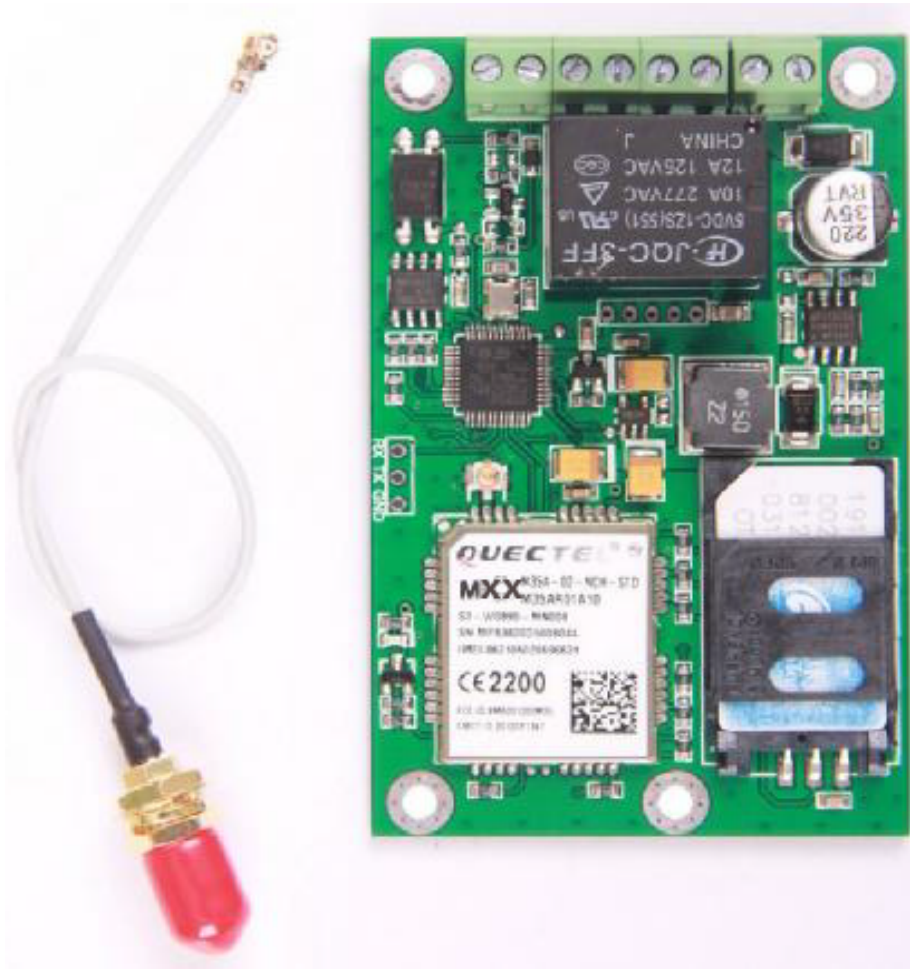


EDW-ML8032 GSM RTU User's Manual



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1. Key Features

Table 1 key features

Power supply	Single supply voltage 6.0V – 24.0V (5.0V Customize)
Frequency bands	● Quad-band: GSM850, GSM900, DCS1800, PCS1900.
Transmitting power	● Class 4 (2W) at GSM850 and GSM900 ● Class 1 (1W) at DCS1800 and PCS1900 ● Standby mode average power about 100mW
SMS	● Text mode
Temperature range	● Normal operation: -35°C ~ +80°C ● Restricted operation: -45°C ~ -35°C and +80°C ~ +85°C ¹⁾ ● Storage temperature: -45°C ~ +90°C
SIM interface	Port SIM card: 1.8V, 3V.
Hardware Software	● Built-in hardware watchdog ● 32 Bit industrial ARM microprocessor with Free RTOS ● With UART interface for firmware upgrade
Relay Output Dry Contact Input	● One 10A&30VDCrelay With NO&NC output ● One dry contact input
Dimension	76.5*48.5*17mm

1) When the module works in this temperature range, the deviations from the GSM specification might occur. For example, the frequency error or the phase error could increase.

2. Application

2.1 Pin description

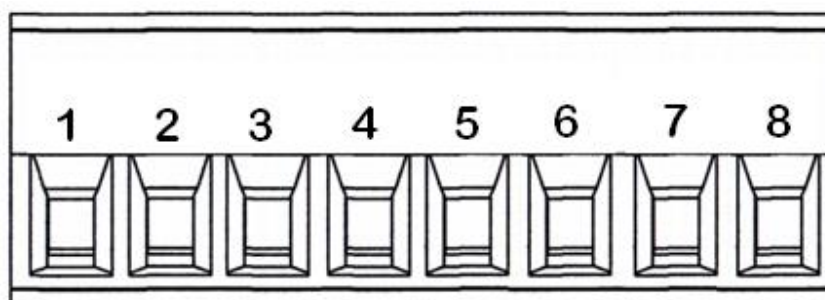


Table 2 Pin description

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PIN	Name	Remark
1	GND	Power and signal ground
2	VCC	6.0V-24V Power Input
3	VCC	Connected together with Pin2 in the PCB
4	RELAY-C	Relay common port
5	RELAY-NC	Relay normal close output
6	RELAY-NO	Relay normal open output
7	DI-C	Digital input common port
8	DI1	Digital input

2.2 Application Examples

The unit is capable of storing up to 30 telephone numbers. If any of these numbers calls the unit, it will automatically detect the caller ID and trigger the relay output then hang up the call.

Programming is done by sending SMS. Each SMS must begin with passcode, separated by #, the SMS format is: 9999#data# (9999 is the default command passcode) or 1234#x# (1234 is the default controlling passcode).

- 1) Change passcode – **9999#01xxxx#** (xxxx 4 digital, new passcode replacing 9999)
- 2) Add a number for access – **9999#72xxxxxx#** (xxxxxx is the number to be added. Can be up to 14 digits. Note: the software will only compare the last 6 numbers; E.g. if the number stored is 0987654321, it will activate the relay if a number calls and the last 6 digits are also 654321. The first digits 0987 are not checked).
- 3) Delete a number – **9999#73xxxxxx#** (xxxxxx is the number to be deleted).
- 4) Delete all numbers – **9999#73*#**
- 5) Restore defaults – **9999#999#** restore all of the parameters to default parameters.
- 6) Relay activation time – **9999#50x#** (x = time in seconds, from 1 to 9999).
- 7) Setup the call phone number-**9999#77zzzzzz#** (zzzzzz is the number to be Setup. Can be up to 14 digits. Every 30 days the unit will call this number for 60 seconds to avoid the operator stop the SIM card).
- 8) SMS trigger relay – **1234#1#** (triggers relay for the programmed time).
- 9) SMS latch relay – **1234#2#** (latches the relay permanently on).
- 10) SMS unlatch relay – **1234#3#** (unlatches the relay off again).
- 11) Change the passcode for controlling the relay – **9999#02xxxx#** (xxxx 4 digital, new passcode replacing 1234).
- 12) Inquire the signal strength: ***20#**, reply “Signal level = xx” xx is the signal strength value.

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2.3 Restore defaults parameters

If you forget the pass code, please short circuit the Pin7 and Pin 8 (dry contact input) in power off state and power on the device, make sure the short circuit time over 10 seconds, then the device parameters will be restored to the default value (the same as 9999#999# command), the default parameters:

Command passcode: 9999

Controlling passcode: 1234

Activate relay time: 1 second

Authorized Phone number: None

2.4 LED indication

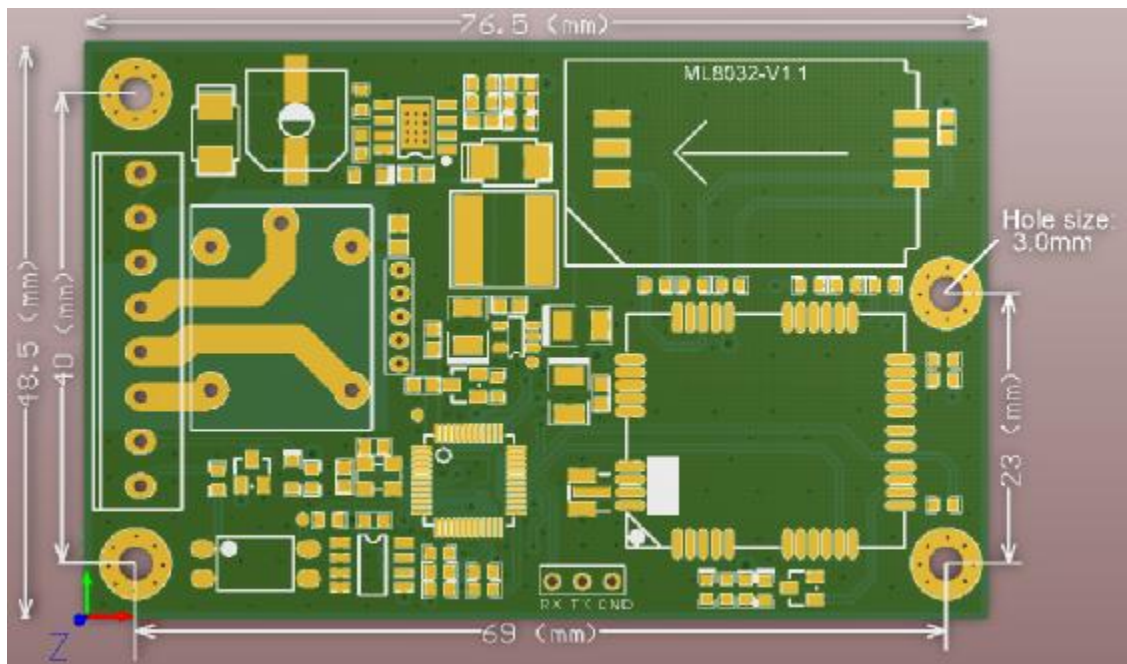
1) Red LED: Power indication.

2) Green LED: networks indication.


Table 3 networkstate indication

state	Module Function
Off	The module is not running(Power Off)
64ms On/800ms Off	The module is not synchronized with network
64ms On/2000ms Off	The module is synchronized with network
64ms On/600ms Off	GPRS data transfer is ongoing.

3. Dimension



4. Product List

Name	Unit	Quantity	Describe	Picture
EDW-ML8032	Item	1	Module	
Antenna	Item	1	Standard Supply	