

# Robustel M1200 Release Notes

## NOTES

This release note will show details of the latest upgraded firmware compared with the previous one. Firmware upgrade information about all versions is accumulated in this release note, so you can check history here.

This release note is applicable to M1200 serial products. It supports M1200 device, runs ROS system, and performs function tailoring improvement and incremental development on this basis.

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## VERSION V1.0.5

Release Date: 25 Sep. 2019

Version Inherited: V1.0.3

## ENHANCEMENT & NEW FEATURES

Ref#	Descriptions
1	Updated Quectel dial-up program to V1.7.
2	Modify the sim card detection mode, changing from sim card holder IO detection to modem detection
3	Added network locking and frequency locking function for BG96

## BUG FIXED

Bug#	Descriptions
1	

## KNOWN BUGS & LIMITATIONS

Bug#	Descriptions
1	

## Others

Index#	Descriptions
1	UBOOT Version:

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## VERSION V1.0.3

Release Date: 19 Dec. 2018

Version Inherited: V1.0.2

## ENHANCEMENT & NEW FEATURES

Ref#	Descriptions
1	Added BG96 support, added BG96 2G frequency lock in test script
2	Optimize bg96 module page setup related options
3	VPN is supported by default, OpenVPN, IPSec, Gre
4	The lan port supports modifying the IP address, and the lan port is configured with the DHCP service. The PC can automatically obtain the IP address.
5	In Modem mode, you can configure the device to be in DTU mode (_dtu)/restart device (_rbt) by sending a command.

## BUG FIXED

Bug#	Descriptions
1	Fixed the bug where the tunnel was unsuccessful when the ipsec local subnet or the remote subnet was 0.0.0.0/0
2	Fixed the bug when ipsec's Gateway was set to empty
3	Fixed the problem that the bg96 module cannot receive SMS messages
4	Fixed the problem that UC20 dialing fails in modem mode

## KNOWN BUGS & LIMITATIONS

Bug#	Descriptions
1	Disable or enable Debug Enable and Verbose Debug Enable to view information about link manager and daemon.info udhcpc
2	2G First can also register to 3G network, 3G Only can register 2G (related to module, some modules have this problem)
3	The actual packet size and interval of RS232 and RS485 are inconsistent with the set Packing Timeout&Packing Length
4	The HE910-D module failed to dial through RS485 under win7 system
5	a. WIN10 system, modem mode, AT port is RS485, a blue screen phenomenon occurs; b. WIN 7 system, when the modem mode is changed to DTU mode, reconnect to the computer and a blue screen appears
6	a. During the test, there was a disconnection. After disconnecting, the USB interface was re-plugged and unplugged for the first time. The PC will fail to recognize and then plug and unplug it again to identify it successfully b. Turn on ping and hang up one night, check the result on the next day, and the packet loss rate is 0. The log shows that the PC will automatically obtain an IP every hour, and the MAC address will change. After manually stopping the ping, less than ten minutes, the device will Disconnect from the PC c. During the serial port data transmission and reception process, a disconnection occurs. Check the network adapter and find that the IP address lease obtained by DHCP expires. Then the IP address and MAC address of the adapter change, causing the serial TCP connection to fail d. After the connection is made, the network card can be released, and then it becomes disabled. After plugging and unplugging, the USB is not recognized. After multiple insertions and removals, it is restored. It appeared on win7 many times and appeared once on win10
7	The count of count values is inaccurate, sometimes increasing by 2 units, and event alarms are displayed twice at NVM This has happened: whether it is from high level to low level or from low level to high level, count will increase
8	RS232 transmission, protocol selection for UDP, once appeared: only one-way, TCP&UDP testing tool→big fool serial port tool, can normally receive data; Conversely, device serial port can receive data, but will lose packets, and data will not be forwarded, so serial port tool→TCP&UDP tool, cannot receive data
9	Modem mode, EC25_E module, win10 system, TCP connection, transmission rate is very slow. Soon after the connection, the network will be disconnected. (win10 dial is not stable)
10	Rtest tests 10 times, two of which need to be re-plugged to identify the network

	card, one DIDO test failed, and one modem & SIM test failed
11	When RS485 port connection is closed by serial port tool end, TCP&UDP tool end will receive several random codes

## Others

Index#	Descriptions
1	UBOOT Version:

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## VERSION V1.0.2

Release Date: 13 Nov. 2018

Version Inherited: V1.0.1

## ENHANCEMENT & NEW FEATURES

Ref#	Descriptions
1	Optimize the import method of IPSec certificate and enable users to modify the name of the certificate before importing the certificate
2	Do not actively query signal strength under Modem mode so as not to affect the normal dialing in modem mode; It will not actively light the signal
3	When the configuration items gateway which is to fix ipsec is empty or all 0, it is unable to create ipsec bug
4	Modify the implementation of the USB transfer network port, configure RNDIS through configs, and configure a dhcp server. After the device is connected to the computer, the IP address can be automatically recognized

## BUG FIXED

Bug#	Descriptions
1	Fixed the issue of SMS could not be received when using UC20 module
2	Fixed the bug that tunnel can still be established when the configuration options on both ends of ipsec are inconsistent
3	Fixed the bug that ipsec cannot re-establish connection after dpd timeout

4	Fixed the bug where the ipsec remote subnet could not log in when it was all 0
5	Fixed the bug that the CA password was invalid when the ipsec authentication type was CA.
6	Fixed the bug where ipsec SA uses AES algorithm is invalid
7	Fixed the problem that the Rtest test DI fails due to the change of DO implementation

## KNOWN BUGS & LIMITATIONS

Bug#	Descriptions
1	Disable or enable Debug Enable and Verbose Debug Enable to view information about link manager and daemon.info udhpcp
2	2G First can also register to 3G network, 3G Only can register 2G (related to module , some modules have this problem)
3	The actual packet size and interval of RS232 and RS485 are inconsistent with the set Packing Timeout&Packing Length
4	The HE910-D module failed to dial through RS485 under win7 system
5	a. WIN10 system, modem mode, AT port is RS485, a blue screen phenomenon occurs; b. WIN 7 system, when the modem mode is changed to DTU mode, reconnect to the computer and a blue screen appears
6	a. During the test, there was a disconnection. After disconnecting, the USB interface was re-plugged and unplugged for the first time. The PC will fail to recognize and then plug and unplug it again to identify it successfully b. Turn on ping and hang up one night, check the result on the next day, and the packet loss rate is 0. The log shows that the PC will automatically obtain an IP every hour, and the MAC address will change. After manually stopping the ping, less than ten minutes, the device will Disconnect from the PC c. During the serial port data transmission and reception process, a disconnection occurs. Check the network adapter and find that the IP address lease obtained by DHCP expires. Then the IP address and MAC address of the adapter change, causing the serial TCP connection to fail d. After the connection is made, the network card can be released, and then it becomes disabled. After plugging and unplugging, the USB is not recognized. After multiple insertions and removals, it is restored. It appeared on win7 many times and appeared once on win10
7	The count of count values is inaccurate, sometimes increasing by 2 units, and event alarms are displayed twice at NVM This has happened: whether it is from high level to low level or from low level to high level, count will increase
8	RS232 transmission, protocol selection for UDP, once appeared: only one-way, TCP

	&UDP testing tool→big fool serial port tool, can normally receive data; Conversely, device serial port can receive data, but will lose packets, and data will not be forwarded, so serial port tool→TCP&UDP tool, cannot receive data
9	Modem mode, EC25_E module, win10 system, TCP connection, transmission rate is very slow. Soon after the connection, the network will be disconnected. (win10 dial is not stable)
10	In modem mode, UC20 module cannot dial
11	IPSec cannot be established when Gateway is set to space-time
12	Whether IKEv1 or IKEv2, an IPSec cannot be established when the Local subnet is an arbitrary subnet
13	IPsec cannot be established when IKEv1 and ID Type are User FQDN
14	IPSec cannot be established when IKEv2, IPSec Mode is Transport
15	IPsec cannot be established when IKEv2, local subnet or remote subnet is arbitrary
16	Rtest tests 10 times, two of which need to be re-plugged to identify the network card, one DIDO test failed, and one modem & SIM test failed
17	When RS485 port connection is closed by serial port tool end, TCP&UDP tool end will receive several random codes

## Others

Index#	Descriptions
1	UBOOT Version:

## VERSION V1.0.1

Release Date: 8 Aug. 2018

Version Inherited: V1.0.0

## ENHANCEMENT & NEW FEATURES

Ref#	Descriptions
1	Added device working mode selection, select from DTU mode or Modem mode.
2	Added that when the modem mode is selected, dial-up Internet access can be performed via USB, RS232, RS485, and the device can be configured by Cli via RS232 or USB;
3	When the modem mode is enabled, other functions are stopped.

4	When using the modem mode, the running light will flash green when the device is ready to dial; the signal indicates the signal strength
5	Convert USB to network port, mainly used to log in web interface configuration parameters

## BUG FIXED

Bug#	Descriptions
1	Fixed the issue where AT Over COM was not available when the module was compatible
2	Fixed the issue where the frequency band or network segment selection was invalid when using the UC20 module.

## KNOWN BUGS & LIMITATIONS

Bug#	Descriptions
1	Disable or enable Debug Enable and Verbose Debug Enable to view information about link manager and daemon.info udhcpc.
2	2G First can also register to 3G network, 3G Only can register to 2G (related to module, some modules have this problem).
3	The actual packet size and interval of RS232 and RS485 are inconsistent with the set of Packing Timeout & Packing Length.
4	The HE910-D module failed to dial through RS485 under win7 system.

## Others

Index#	Descriptions
1	UBOOT Version:

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## VERSION V1.0.0

Release Date: 9 Mar. 2018

First Initial

## ENHANCEMENT & NEW FEATURES

Ref#	Descriptions

## BUG FIXED

Bug#	Descriptions

## KNOWN BUGS & LIMITATIONS

Bug#	Descriptions

## Others

Index#	Descriptions
1	UBOOT Version:
2	Platform Version: RobustLink2.0.3 and above