

LXI990 Industrial-grade External GPRS / CDMA /ET Wireless Data Transmission Unit (DTU)

Ver:1.0



1. Comparison of model functions

Product Selection Table		LXI990-GSM	LXI990C-GSM
Programmable input port		2	2
0-75 Voltage detection		•	•
RS232		•	
RS485			•
Networking methods		4G	4G
USB HOST/SLAVE		•	•
GPS		•	•
Programmable output port		2	2

2. LED indicate

Indicate	Equipment operation status	Led Color	Led State
DATE	Communication Status	GREEN	Flashes when communicating with the platform and goes off when not present
NET	Network Status	RED	Blinking when not connected, permanently lit when successfully connected
GPS	GPS Status	RED	Blinks when unable to locate, remains on when successfully located
LINK	USB/RS232/RS485/Net work status configuration switch status changes	GREEN	It is off when communication with the device is not successful, and it is always on when communication is successful

3. Performance parameter

Network settings: When the product is used, install a SIM card to automatically connect to the cloud service. If you need private cloud services, please contact the service personnel.

Main parameters of the product:

Network	Frequency band description				
2G	Operating Frequency is 4G/GPRS 850/900/1800/1900MHz				

4G band		4G/E	4G/A	4G/C	4G/CE
LTE	FDD-LTE	B1/ B3/ B5/ B7/ B8/ B20	B2/ B4/ B5/ B12/ B17	B1/ B3/ B8	B1/ B3
	TDD-LTE			B38/ B39/ B40/ B41	B38/ 39/ B40/ B41
3G	WCDMA	B1/ B5/ B8	B2/ B4/ B5	B1/ B8	B1
	TD-SCDMA			B34/ 39	B34/ 39
	EVDO/ CDMA2000 1x				BC0
4G/EDGE		Quad-Band	B2/ 5	B3/ 8	B3/ 8
AREA		EMEA, Korea, Thailand, India	America	China (China Mobile, China Unicom)	China (China Mobile, China Unicom, China Telecom)
Authentication		CE/ GCF/ NCC/ KC/ SKT/ ICASA			CCC/ SRRC/ CTA

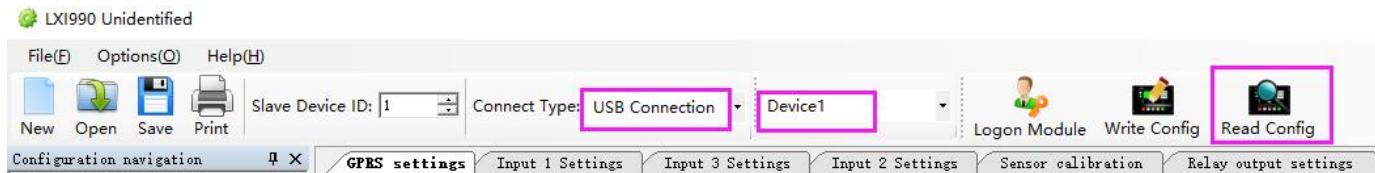
Project	Parameter	Remarks
SIM Card voltage	3V/1.8V	
Antenna interface	50 Ω/SMA	GSM/antenna
Antenna interface	RS232fiduciary level/RS485/LINK:RS232-TTL	
Serial port port rate	300~115200bps	Support for the standard Porter rate
Adaptive power supply	DC: +8V~35V	
power dissipation	Work: peak 6W	peak power
	bide one's time : ≤30 mA	
working temperature	-25°C ~+70°C	
storage temperature	-40°C ~+80°C	
Humidity range	0~95%	Non-condensation

Port	Describe
- / +	Power supply:DC8.0V-35.0V Continuous power supply;
IN1、IN2	The input port can be configured: switch quantity input, 0-5V input, sensor input;
IN3-、IN3	Electrical parameter input selection:0~5VDC/0~70VDC;
OUT1A、OUT1B	Programmable relay output of 1, the relay to withstand the current of 1A;
OUT2	Programmable output port 2
RS232(TX、RX、G)	RS232: connect DSE/ComAp/LIXISE (RS232\RS485either-or)
RS485(B、A、SCR)	RS485: connect DSE/ComAp/LIXISE (RS232\RS485either-or)
Big USB	Connect DSE / LIXISE / smart controllers;
SMA	4G、GPS Antenna interface;
Small USB	Connect the computer for the device configuration settings;

4. Equipment configuration

Open the LXI990 configuration software and connect the LXI990 to the computer through USB as shown in Fig

- 1: Select the connection mode: USB connection, next to the display of "Device 1";
- 2: Click "Read Config"
- 3: The configuration software shows "Enter the configuration mode successfully" and the LXI980 can be configured;
- 4: After the configuration is completed, click [write configuration] to enter the normal working state.



4.1 SIM Card installation

SIM card installation: pry open the middle card plate of the face cover with a screwdriver, and put the SIM card slot into the SIM card; note: operate after power failure;

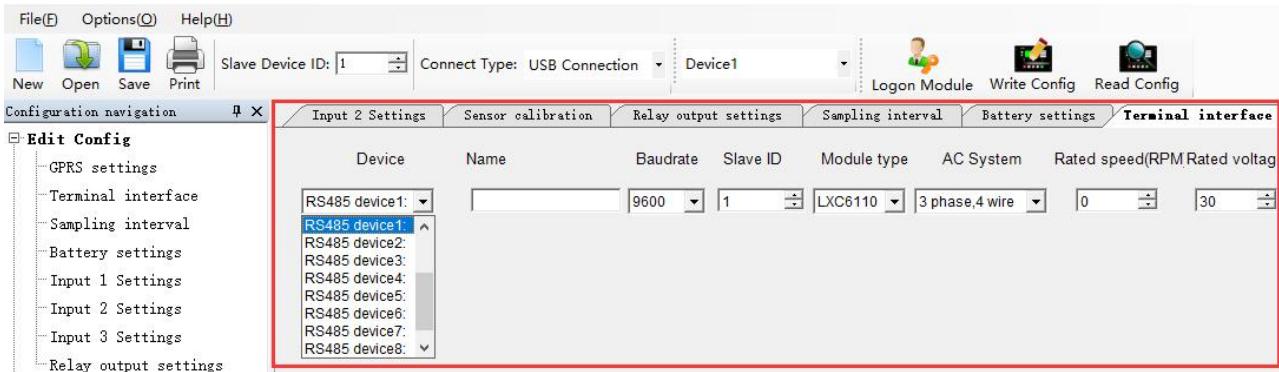


4.2 Device interface

Set up according to the communication interface of the externally connected controller, port rate, from the device ID, module model, and situation.

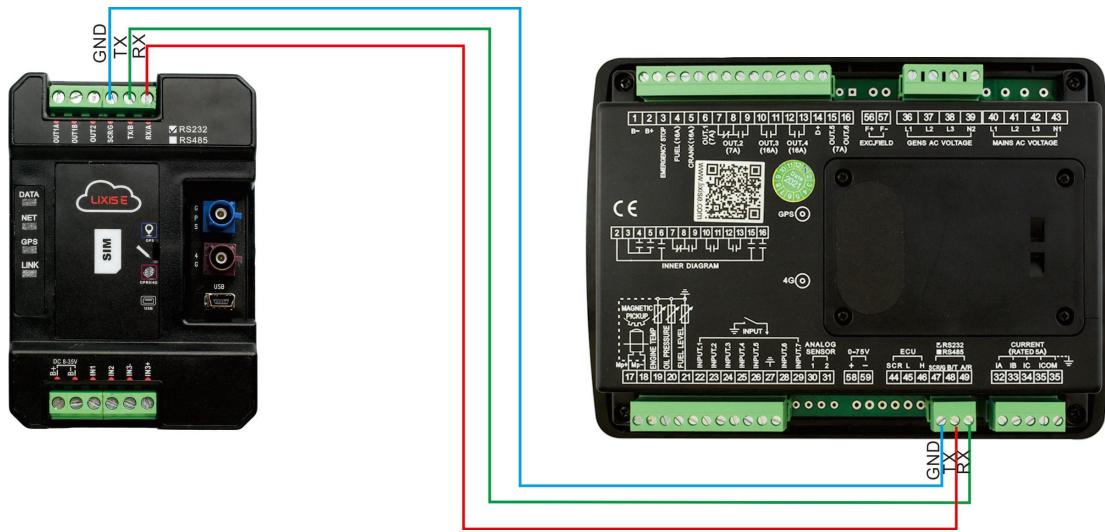
RS232 port is connected to deep sea 7320 (Porter rate is 19200, ID 10)

RS485 port connection force 6110 (port rate 9600, ID 1) is shown below:

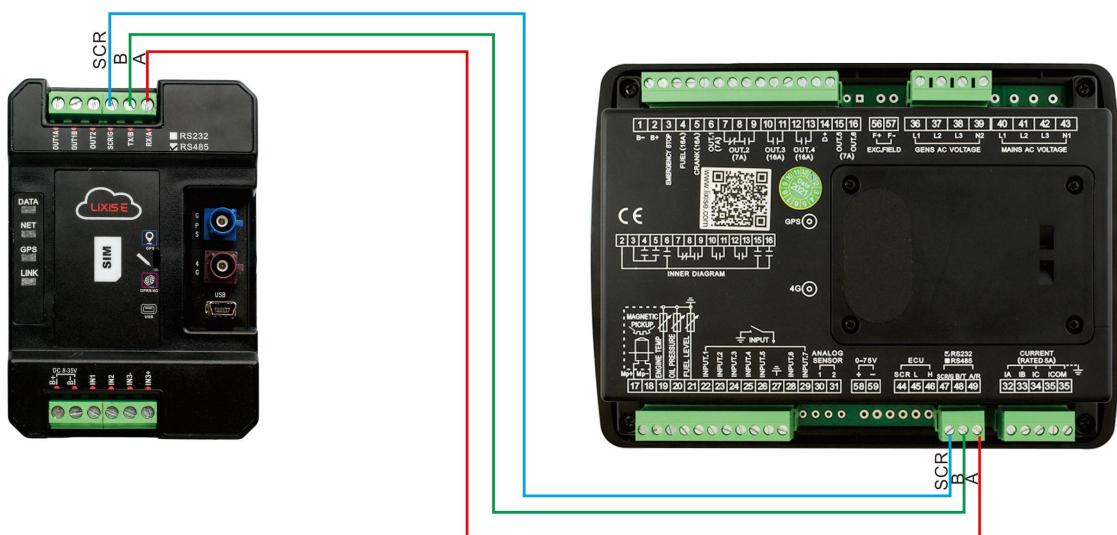


4.3 LXI990 Connect to the controller

LXI990 Communication method with LXC6110N 232



LXI990 Communication method with LXC6110CAN 485



4.4 LXI990 product accessories



LXI990



USB



GPS



Antenna

4.5 List of compatible controller models

Brand	Model	Describe	Joggle
LIXISE	LXC6110	Remote start module	RS232
	LXC6120	AMF module	RS232
	LXC3910	Remote start module	USB
	LXC3920	AMF module	USB
	LXC7X10	Remote start module	RS232
	LXC7X20	AMF module	RS232
	LXC9510	Parallel generator set module	RS232
	LDR360	Generator monitoring module	RS485
DSE	DSE6020	Auto Start Module	USB
	DSE6110	Remote start module	RS232/USB
	DSE6120	Auto Start Module	RS232/USB
	DSE7210	Remote start module	RS232/USB
	DSE7220	AMF module	RS232/USB
	DSE7310	Remote start module	RS232/USB
	DSE7320	AMF module	RS232/USB
	DSE8610	Parallel generator set module	RS232/USB
COMAP	MRS10	Remote start module	RS232
	MRS16	Remote start module	RS232

	AMF20	AMF module	RS232
	AMF25	AMF module	RS232
	AMFIG-NT GC	AMF module	RS232
HARSEN	GU620A	Remote start module	TTL RS232
	GU621A	AMF module	TTL RS232
	GU630A	Remote start module	TTL RS232
	GU631A	AMF module	TTL RS232
	GU3320	control module	RS485
	GU3321	control module	RS485
SMARTGEN	HGM410DC	control module	LINK/USB
	HGM6320	control module	RS485
	HGM6110U/N	Remote start module	LINK/USB
	HGM6120U/N	AMF module	LINK/USB
	HGM7x10	AMF module	LINK/USB
	HGM7x20	AMF module	LINK/USB
	HGM9510	Parallel generator set module	RS485

Remarks:

Brand	LIXISE	COMAP	DSE	SMARTGEN	HARSEN
Baud rate (default)	9600	9600	19200	9600	9600
ID	1	1	USB(10)/RS232(1)	1	1

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