



INTOIOT YN7020C NB-IoT Module User Manual

[Home](#) » [INTOIOT](#) » INTOIOT YN7020C NB-IoT Module User Manual 



Contents

- [1 INTOIOT YN7020C NB-IoT Module User Manual](#)
- [2 Technical Parameters](#)
- [3 Product Size](#)
- [4 How to wiring?](#)
- [5 Application solution](#)
- [6 Disclaimer](#)
- [7 Contact Us](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

INTOIOT YN7020C NB-IoT Module User Manual



YN7020C

YN7020C using the standard ,easy access to PLC DCS and other instruments or systems for monitoring NBIOT1 state quantities.The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability,can be customized.

RS232,RS485,CAN,4-20mA,DC0~5V\10V,ZIGBEE,Lora,WIFI,GPRS and other output methods.

Technical Parameters

Technical parameter	Parameter value
Applicable area	China
Default rate	115200kbps
Network frequency band	LTD-TDD:B1/B3/B5/B8
Network protocol	TCP/UDP/HTTP/HTTPS/PING/LWM2M/COAP/ONENET
SIM card	support 1.8/3V
Antenna interface	IPX
How to use	serial AT command configuration
Peak current	300mA
Standby current	<20mA
Communication Interface	TTL
Power	DC3.3~5.5V
Running temperature	-40~80°C
Working humidity	5%RH~90%RH

Product Size



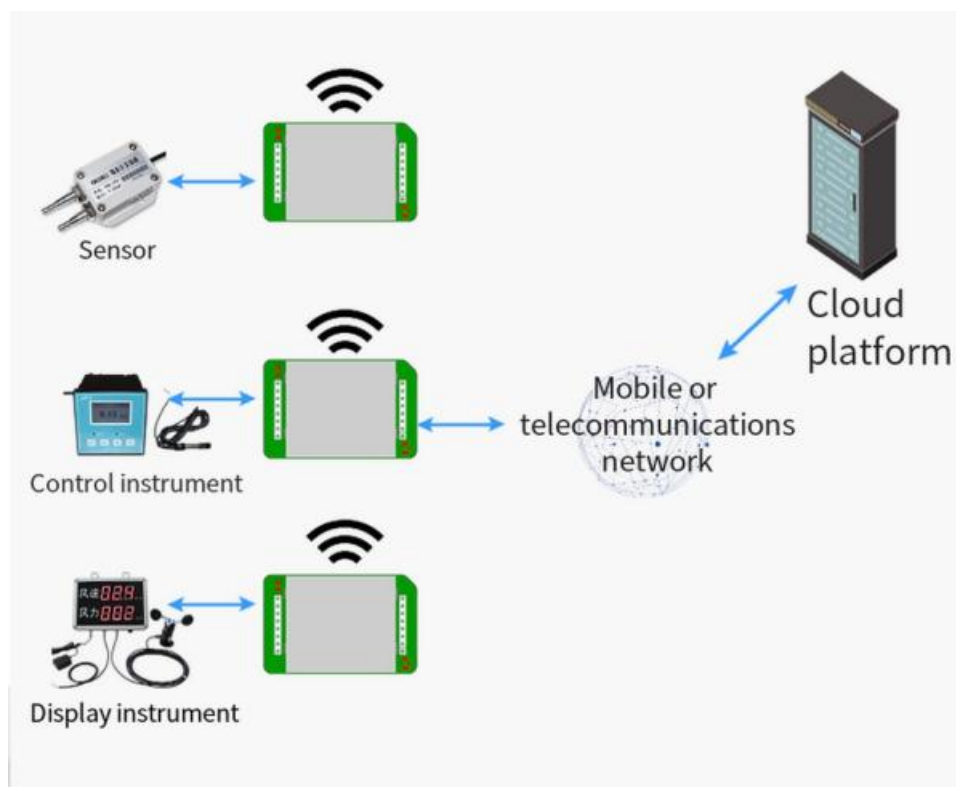
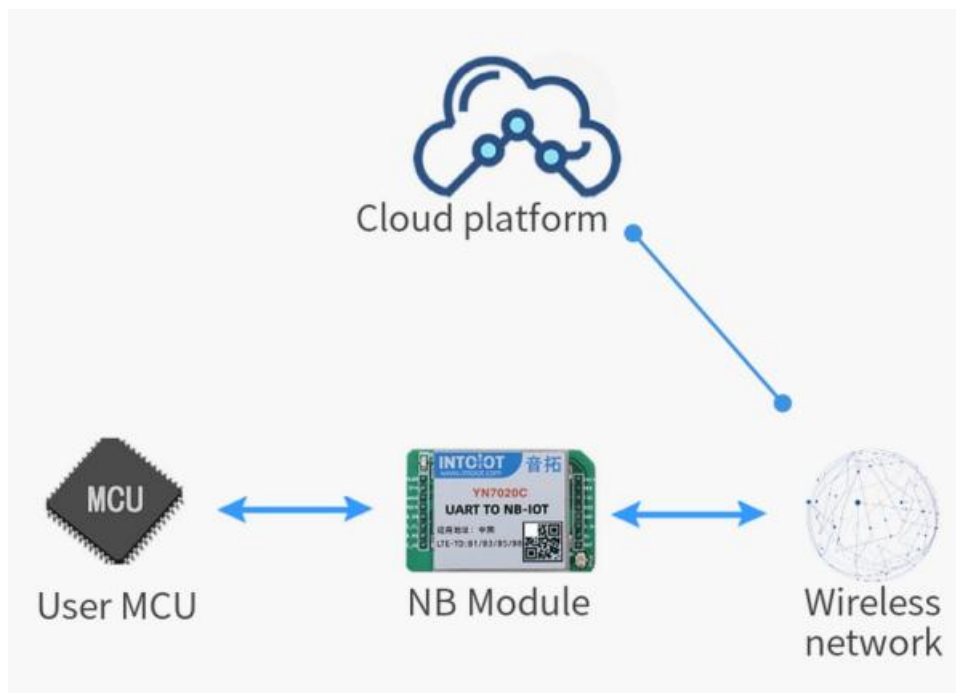
Pin description



How to wiring?

Pin name	Function
NET	Status indicator
NLED	Status indicator
STA	Running status indication
WAVP	SIM Card power supply
ADIN	SIM Signal
S_DA	SIM_DATA
S_CL	SIM_CLK
S_RS	SIM_RST
S_VD	SIM_VDD
PKEY	Power enable
RES	Reset
TXD	Data reception (3.3VTTL)
RXD	Data reception (3.3VTTL)
GND	Power negative
3.3V	Power positive
5V	Power positive
ANT	Antenna
IPX2	Antenna interface

Application solution



COMMON PROTOCOL AT COMMAND

MQTT

HTTP

TCP

LWM2M

CoAP

多条字符串发送 stm32/GD32 ISP STC/IAP15 ISP		顺序 延时	
HEX 字符串(双击注释)	点击发送	+	- ms
AT	AT	1	1000
AT+CFIN?	检查SIM卡状态	3	1000
AT+CSQ	检查射频信号	2	1000
AT+CGREG?	查询网络注册状态	0	1000
AT+CGACT?	查询PDP状态	0	1000
AT+COPS?	查询网络信息	0	1000
AT+CGCONTRDP	查询网络状态	0	1000
AT+CFUN=0	关闭RF	0	1000
AT+MCGDEFCONT="IP","3GNET"	配置APN	0	1000
AT+CFUN=1	开启RF	0	1000
AT+CGMR	查询版本	0	1000
	12无注释	0	1000
gaqkrZba0r9.iot-as-mqtt.cn-shanghai.aliyuncs.com	13无注释	0	1000
——阿里云MQTT SD6813N_0001——	14无注释	0	1000
AT+CMQNEW="gaqkrZba0r9.iot-as-mqtt.cn-shanghai.aliyuncs.com","1883",12000,512	1 连接服务器	0	1000
AT+CMQALICFG=0,"gaqkrZba0r9","SD6813N_0001","184d67b41b6b7a43b944895deacd1a14"	2 三元参数	0	1000
AT+CMQALICON=0,600,1	3 MQTT 请求	0	1000
AT+CMQALICFG=0,"gaqkrZba0r9","SD6813N_0001","184d67b41b6b7a43b944895deacd1a14"	3 重传三元参	0	1000
AT+CMQPUB=0,"/sys/gaqkrZba0r9/SD6813N_0001/thing/event/property/post/",1,0,0,270,"	4 上传 数据	0	1000
AT+CMQDISCON=0	6 断开 连接	0	1000
	21无注释	0	1000
——阿里云MQTT SR6813N_0002——	22无注释	0	1000
AT+CMQNEW="gaqkrZba0r9.iot-as-mqtt.cn-shanghai.aliyuncs.com","1883",12000,512	1 连接服务器	0	1000
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AT+CMQALICON=0,600,1	3 MQTT 请求	0	1000
AT+CMQALICFG=0,"gaqkrZba0r9","SR6813N_0002","67be9204a98d5200226fec188b7855644"	3 重传三元参	0	1000
AT+CMQPUB=0,"/sys/gaqkrZba0r9/SR6813N_0002/thing/event/property/post/",1,0,0,270,"	4 上传 数据	0	1000
AT+CMQDISCON=0	6 断开 连接	0	1000
	检查端口和通信类型	0	1000

AT commands make device
networking development easier

Disclaimer

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References

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