Technical Specification

NB007 NB-IoT/LTE-M Analyzer

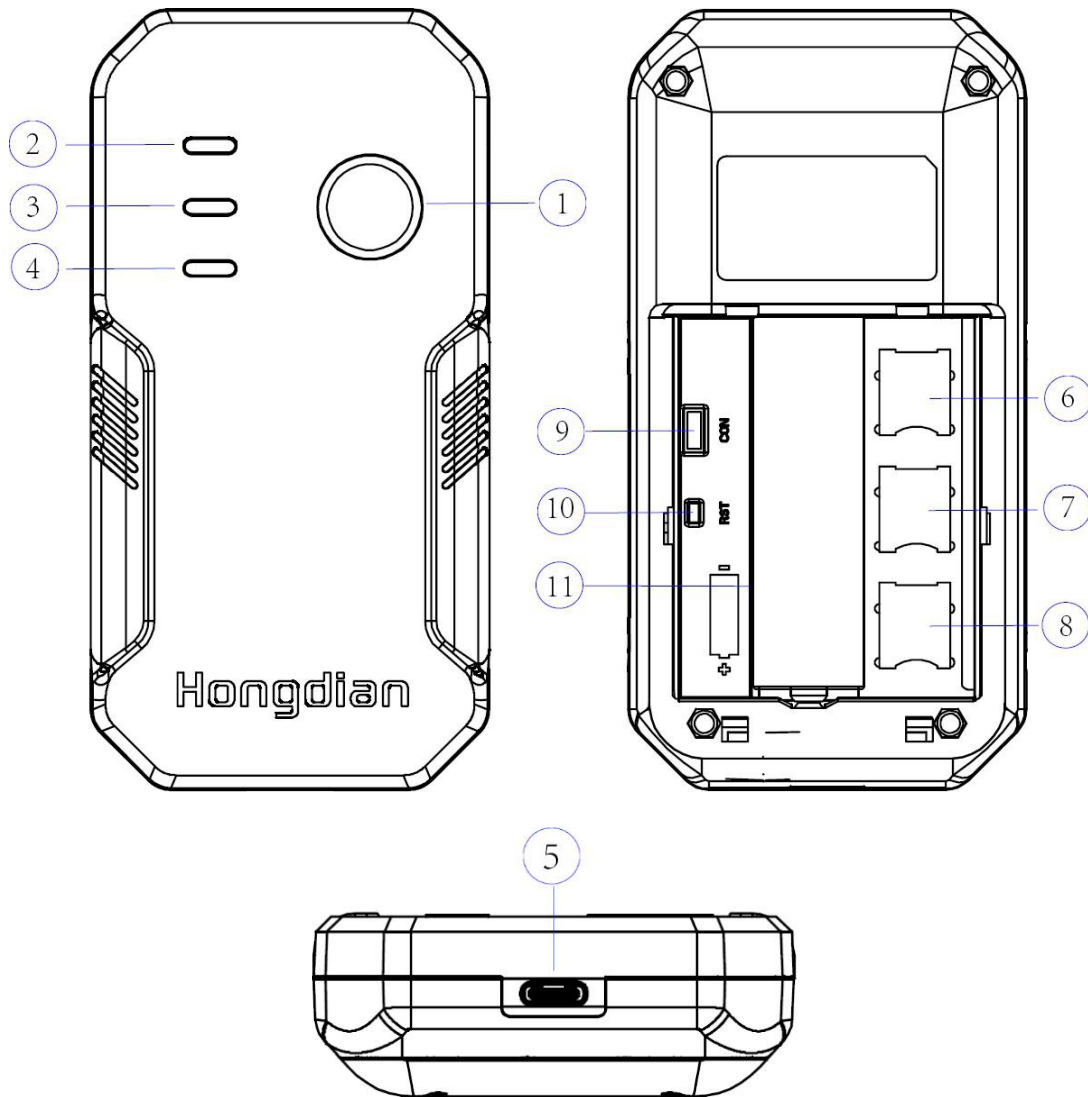# Table of content

1. Product overview

Hongdian NB007 NB-IoT/LTE-M Analyzer is a hand-held easy-to-carry product supporting NB-IoT/LTE-M signal network quality analysis. By analyzing various indicators of signal quality to determine the strength and stability of the signal, NB007 guides users to quickly select the best installation location and the best network operator for installation of terminals. It can be widely used in multiple industries like power supply, water supply, gas supply, environmental protection monitoring, water conservancy, meteorology, heat pipe network, coal mine, oil field, etc.

2. Product specification

Specification name	Specification description	Remark
Product name	NB007	NB007 Analyzer
Network type	NB-IoT/LTE-M	CAT NB1&NB2 CAT M1
Interface	A side interface	1* Power button 1* Power indicator 1* Network signal indicator 1* Bluetooth connection status indicator 1* battery indicator
	B side interface	1* Type-C USB charging dock
	C side interface	1* battery cover 1* Li-ion 18650 rechargeable battery 1* RESET button 1* debugging interface (3.3V TTL UART) 3* Nano SIM card
Power supply	Working voltage	DC 5.0V~5.2V
Built-in battery	ER18650 Li-ion battery	3.7V@2600mAh
Power consumption	During stand-by	Approx. 50mA@4.0V DC
	During working	Approx. 110mA～1800mA@4.0V DC
Others	Weight	128g [with rubber shell and sling: 180g]
	Size (length×width×height)	126×64×24.2 mm (without rubber shell) 139.4×70×27.7 mm (with rubber shell)
	Working temperature	-20～+55℃
	Storage temperature	-30～+75℃
	Relative humidity	≤95% (no condensation)

Note: The power consumption of communication is affected by the network signal coverage intensity.

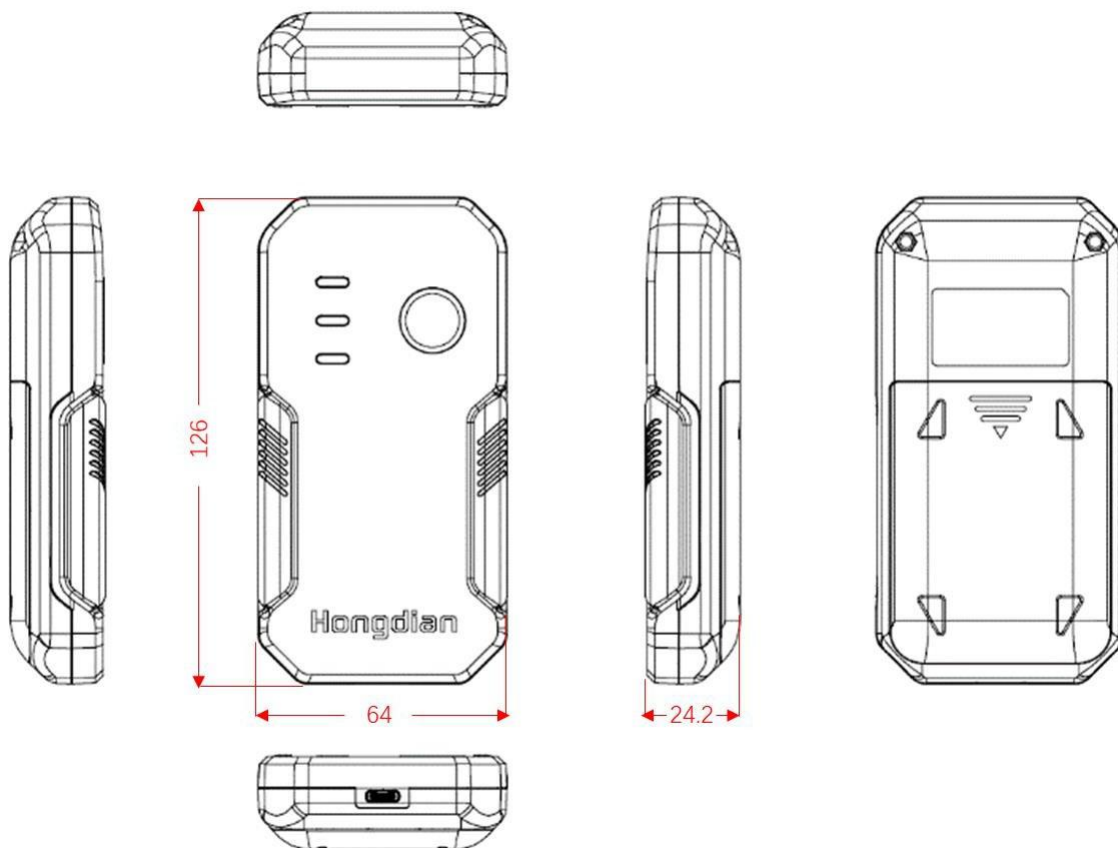# 3. Interface definition

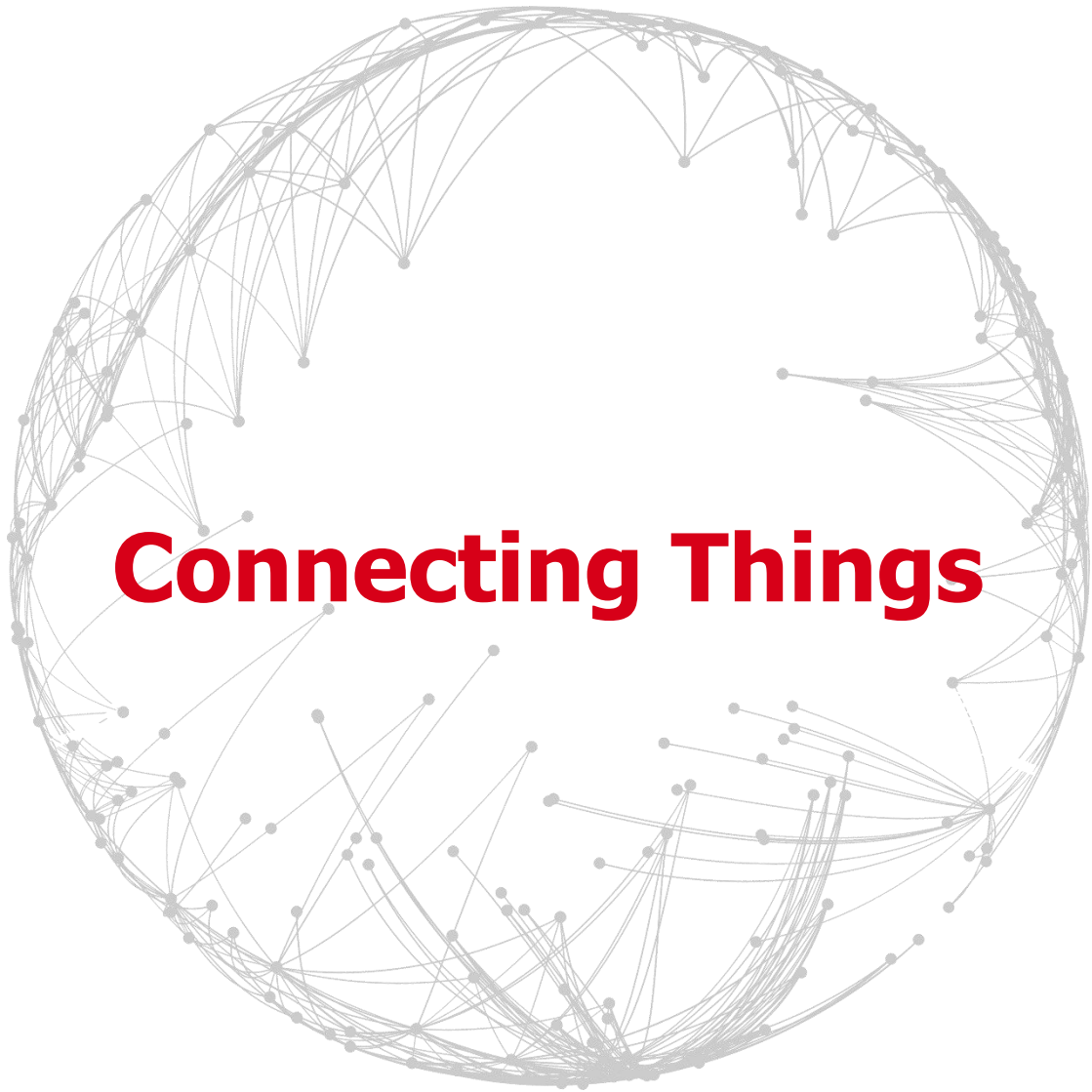| No	Interface	No	Interface
①	Power indicator	⑦	SIM card slot 2
②	Network signal indicator	⑧	SIM card slot 3
③	Bluetooth status indicator	⑨	Debugging interface
④	Battery indicator	⑩	RESET button
⑤	USB Type C power jack	⑪	Li-ion battery
⑥	SIM card slot 1		

4. Structural size and view

Structural size (unit: mm): 126×64×24.2 (without rubber shell)

5. LED indicator status

There are 4 LED indicators on A side of NB007 to indicate operating status of the device. The indicator is shown as graph, and indicator status description is as shown in table.

Indicator screen print	Indicator name	Status description
	System status indicator (green)	Off: means the system is power off or stand-by. On: means the system is in operating normally. Blink: powering off
	NB signal strength indicator light (red, yellow and green)	No signal (CSQ=0): all off Weak signal (0<CSQ≤9): red is on; Medium signal (10<CSQ≤14): yellow is on; Strong signal (14<CSQ≤31): green is on;
	Bluetooth indicator (blue)	Off: no connection between the device and mobile terminal On at all time: connection between the device and mobile terminal has been established
	Battery indicator (red/yellow/and green)	Power is consumed entirely (BAT=0): all off; Low power (BAT≤25%): Short press power button once, red is on; Medium power (25%<BAT≤50%): Short press power button once, yellow is on; Sufficient power (50%<BAT≤100%):Short press power button once, green is on;

Connecting Things

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