











RF SIM7000E MCU ATMEGA32U4

Sensor Temperature & Humidity

Dimensions and weight

Height 25 mm

Width 60 mm (with casing box) Depth 45 mm (with casing box) Weight 150 grams

Power Supply

Power Supply 5V USB

Casing

Material LUPOY

Colors GN5001RFG Black

Environmental Requirements

Operating temperature -20°C / +85°C Storage temperature -5°C / +35°C Humidity from 0% up to 95%

Power Consumption (RF)

Power off: 7uA PSM: 9uA Sleep: 1mA

Idle: 11mA

Interfaces

microUSB X1

UART up to 2 (3.3V) microSIM X1 (3.3V) X1

I2C X1 SPI up to 12

GPIO up to 2 (10bits)

ADC

54.5

Product

Name NB-IOT Start Kit Model NWNBM7000ES-ST Standard

- Tri-Band FDD-LTE
 B3/B8/B20/B28ETSI EN 300 328
 Compliance
- GNSS (GPS,GLONASS and BeiDou/Compass, Galileo, QZSS)
- LTE CAT-M1(eMTC)
 - Uplink up to 375kbps, Downlink up to 300kbps
- NB-loT
 - Uplink up to 66kbps, Downlink up to 34kbps
- EDGE Class
 - Uplink up to 236.8Kbps, Downlink up to 236.8Kbps
- GPRS
 - Uplink up to 85.6Kbps, Downlink up to 85.6Kbps

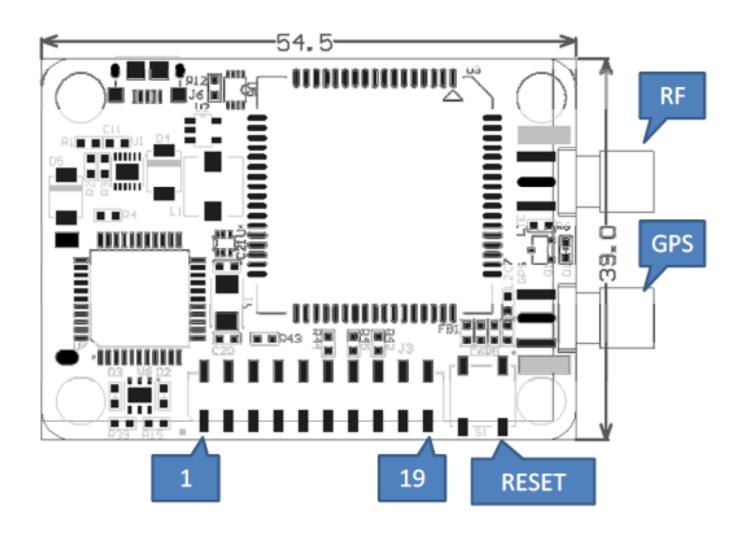
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2	4	6	8	10	12	14	16	18	20
VBUS	MOSI	GND	SIMDP2	SIMDM2	D2/SDA	D3/SCL	D8/INT	D7	D6

1	3	5	7	9	11	13	15	17	19
MISO	SCK	RESET	AIO1	AIO0	+3.3V	GND	D9	D10	D11