GOSUNCN

5G Module

GM801

5G NR & 4G LTE & 3G	LGA Form Factor	5G: DL 2.0Gbps UL 500Mbps
4 × 4 MIMO	RGMII Interface	Embedded TCP/UDP
FOTA	PCIE 3.0-2Lanes	RAS /ECM/RNDIS
-40℃ ~ 85 ℃	Auto suspend & remote wakeup	USB 3.1 Gen2

For M2M Applications

GM801 is a 5G module based on Qualcomm SDX55 chip developed by GOSUNCN Technology Co., Ltd. It supports SA and NSA network deployment and supports 5G NR/4G/3G commercial network frequency bands in major regions and operators around the world.

The module supports multiple network protocols (TCP/IP/IPV4/IPV6) and multiple functions (network slice management, FOTA, Remote wakeup, etc.), and can provide USB, PCIE, 2×USIM, I2S and other hardware interfaces.

The module supports wide temperature operation and can be widely used in a variety of eMBB IoT application scenarios, such as video surveillance, safe city,VR,AR,online games, industrial robots, CPE,routers.

Note: The pictures are just for reference, please in kind prevail

Welink your smart

5G Module

General Features

- ☐ 3GPP release 15
- ☐ LGA
- ☐ Dimensions: 46mm $\times$ 49mm$\times$2.75mm
- ☐ Weight: About 10.0g
- ☐ SA&NSA (Option 3X,3A and Option 2)
- ☐ High-power UE

Electrical & Sensitivity

- ☐ Transmit Power:
  - – 5G NR: 26 $\pm$2.7dBm (Power Class 2)
  - – LTE: 23 $\pm$2.7dBm (Power Class 3)
  - – 3G: 23 $\pm$2.7dBm (Power Class 3)
- ☐ Antenna :
  - – 4 × 4 MIMO
- ☐ Power Supply :
  - – 3.8V Typical

Environmental

- ☐ Operation temperature: -30°C to +75°C
  - – Extreme Operating temperature: -40°C to +85°C
- ☐ Storage temperature: -40°C to +85°C
- ☐ Humidity: 5%~ 95%

Data Characteristics

- ☐ 5G NR
  - – Downlink 2.0Gbps / Uplink 500Mbps
- ☐ 4G LTE
  - – LTE Cat.20: Downlink 2.0Gbps / Uplink 200Mbps

Interfaces

- ☐ PCIE 3.0 2-Lanes
- ☐ USB 3.1 Gen2 & USB2.0
- ☐ SIM x2 interface (1.8/3.0V)
- ☐ Audio I2S or PCM x2
- ☐ UART x4, SPI x1, I2C x2, SDIO x1
- ☐ GPIO
- ☐ RGMII
- ☐ RFFE MIPI for antenna tune
- ☐ Antenna: 8x for 4x4 MIMO antenna 1x for GNSS
- ☐ Reset & Power-on
- ☐ WAKE-IN & WAKE-OUT

Applications

- ☐ Support TCP & UDP protocols
- ☐ USB Selective Suspend & Remote wakeup
- ☐ ECM/RNDIS /RMNET
- ☐ Control Via AT Commands according to 3GPP TS27.005, 27.007 and GOSUNCN extended AT commands

Driver & Tool

- ☐ Drivers
  - – Windows XP, Vista, 7 , 8, 10
  - – Linux
  - – Android
- ☐ Diag-log Tool
- ☐ Firmware Update Tool

GM801 Series

PID	Band
E1A	5G NR① : N1/N3/N5/N7/N8/N20/N28/N41/N77/N78/N79 5G UL MIMO: N77/78/79/41 4G LTE: B1/3/5/7/8/20/28/32/34/38/39/40/41/42/43/46 3G:B1/3/5/8 GNSS: GPS, GLONASS, Beidou L1 and L5
VDF	5G NR① :N1/N3/N5/N7/N8/N20/N28/N41/N77/N78/N79 5G UL MIMO: N77/78/79/41 4G LTE: B1/3/5/7/8/20/28/32/34/38/39/40/41/42/43 3G:B1/3/5/8 GNSS: GPS, GLONASS, Beidou L1 and L5
U1A	5G NR ①:N2/N5/N25/N41/N48//N66/N71 5G UL MIMO: N77/78/79/41 4G LTE: B2/3/4/5/7/12/13/17/25/26/29/30/41/48/66/71 3G:B2/4/5 GNSS: GPS, GLONASS, Beidou L1 and L5

Note①: Sub6GHz frequency band is realized in the first stage, and mmWAVE frequency band is realized in the second stage.

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