






# OneMO模组 ——选型手册

产品	M5310-E-BR
产品图片	
封装特征	LCC+LGA
尺寸	19mm × 18.4mm × 2.2mm
通信制式	5G NB-IoT
频段	B5/B8
重量	1.5g
工作温度范围	-35℃ ~ +75℃
扩展温度范围	-40℃ ~ +85℃
<b>数据传输</b>	
Cat NB2 速率	126kbps(DL) / 158.5kbps(UL)
SMS	PDU模式
网络协议	IPv4/IPv6/UDP/TCP/DTLS/LwM2M/HTTP/MQTT/NTP/DNS
<b>接口</b>	
USIM	×1(1.8V/3V)
UART	×2
I2C	*
ADC	×3
GPIO	×5
RESET	×1
SPI	*
PWM	*
天线	×1
<b>特殊功能</b>	
FOTA	●
OneNET	●
CTWing	●
OpenCPU	*
基站定位	OTDOA
固件升级	UART/FOTA
内置M2M芯片	●
BLE 5.0	●
GNSS	GPS&BDS*
<b>电气参数</b>	
供电电压	2.1V ~ 4.2V, Typ 3.6V/3.6V
耗流	TBD
认证	CCC*/SRRC*/NAL* /华为认证/RoHS
应用领域	能源表计、智慧烟感、资产追踪、智能停车、智能路灯、消防栓、垃圾桶、可穿戴设备、智能家居、工业监测等

产品	ML305-RNLM	ML305-DNLM	ML305-SNLM	ML305-TNLM
产品图片				
封装特征	LCC	LCC	LCC	LCC
尺寸	23mm × 24mm × 2.4mm	23mm × 24mm × 2.4mm	23mm × 24mm × 2.4mm	23mm × 24mm × 2.4mm
LTE Category	LTE Cat.1	LTE Cat.1	LTE Cat.1	LTE Cat.1
频段	LTE-TDD:B34/B38/B39/B40/B41 LTE-FDD:B1/B3/B5/B8	LTE-TDD:B34/B38/B39/B40/B41 LTE-FDD:B1/B3/B5/B8	LTE-TDD:B34/B38/B39/B40/B41	LTE-TDD:B41 LTE-FDD:B1/B3/B5
GNSS	/	/	/	/
BT	BLE 4.2	/	/	/
Wi-Fi	Wi-Fi Scan	/	/	/
重量	2.9g	2.9g	2.9g	2.9g
工作温度范围	-30°C ~ +75°C	-30°C ~ +75°C	-30°C ~ +75°C	-30°C ~ +75°C
扩展温度范围	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
<b>数据传输</b>				
LTE-TDD速率	Max.7Mbps(DL)/Max.4Mbps(UL)	Max.7Mbps(DL)/Max.4Mbps(UL)	Max.7Mbps(DL)/Max.4Mbps(UL)	Max.7Mbps(DL)/Max.4Mbps(UL)
LTE-FDD速率	Max.10Mbps(DL)/Max.5Mbps(UL)	Max.10Mbps(DL)/Max.5Mbps(UL)	/	Max.10Mbps(DL)/Max.5Mbps(UL)
GPRS速率	/	/	/	/
SMS	●	●	●	●
网络协议	TCP/PPP/UDP/FTP/HTTP/NTP/ MQTT/PING/HTTPS/SSL/MQTTs	TCP/PPP/UDP/FTP/HTTP/NTP/ MQTT/PING/HTTPS/SSL/MQTTs	TCP/PPP/UDP/FTP/HTTP/NTP/ MQTT/PING/HTTPS/SSL/MQTTs	TCP/PPP/UDP/FTP/HTTP/NTP/ MQTT/PING/HTTPS/SSL/MQTTs
<b>接口</b>				
USB	USB 2.0 (高速)	USB 2.0 (高速)	USB 2.0 (高速)	USB 2.0 (高速)
I2C	×2	×2	×2	×2
USIM	1.8V/3V	1.8V/3V	1.8V/3V	1.8V/3V
UART	×3	×3	×3	×3
SPI	●	●	●	●
ADC	×2, 10bits	×2, 10bits	×2, 10bits	×2, 10bits
SDIO	●	●	●	●
数字音频 (PCM)	●	●	●	●
模拟音频	SPK×1, MIC×1	SPK×1, MIC×1	SPK×1, MIC×1	SPK×1, MIC×1
<b>特殊功能</b>				
FOTA	●	●	●	●
TTS	●	●	●	●
音频回放/录制	●	●	●	●
USB串口驱动	Windows 7/8/10 Linux 2.6/3.x/4.x Android 4.x/5.x/6.x/7.x/8.x/9.x	Windows 7/8/10 Linux 2.6/3.x/4.x Android 4.x/5.x/6.x/7.x/8.x/9.x	Windows 7/8/10 Linux 2.6/3.x/4.x Android 4.x/5.x/6.x/7.x/8.x/9.x	Windows 7/8/10 Linux 2.6/3.x/4.x Android 4.x/5.x/6.x/7.x/8.x/9.x
RIL驱动	Android 4.x/5.x/6.x/7.x/8.x/9.x	Android 4.x/5.x/6.x/7.x/8.x/9.x	Android 4.x/5.x/6.x/7.x/8.x/9.x	Android 4.x/5.x/6.x/7.x/8.x/9.x
RNDIS驱动	Windows 7/8/10 Linux 2.6/3.x/4.x	Windows 7/8/10 Linux 2.6/3.x/4.x	Windows 7/8/10 Linux 2.6/3.x/4.x	Windows 7/8/10 Linux 2.6/3.x/4.x
ECM驱动	Linux 2.6/3.x/4.x	Linux 2.6/3.x/4.x	Linux 2.6/3.x/4.x	Linux 2.6/3.x/4.x
(U) SIM插入检测	●	●	●	●
固件升级	USB / FOTA	USB / FOTA	USB / FOTA	USB / FOTA
<b>电气参数</b>				
供电电压	3.3V~4.3V, Typ 3.8V	3.3V~4.3V, Typ 3.8V	3.3V~4.3V, Typ 3.8V	3.3V~4.3V, Typ 3.8V
耗流	5uA@Poweroff 1.3mA@Sleep 11.9mA@Idle	5uA@Poweroff 1.3mA@Sleep 11.9mA@Idle	5uA@Poweroff 1.3mA@Sleep 11.9mA@Idle	5uA@Poweroff 1.3mA@Sleep 11.9mA@Idle
认证	CCC/NAL/SRRC/RoHS			
应用领域	共享经济、金融支付、公网对讲、工业控制、智慧能源等			

中移物联网有限公司



扫码 了解更多资讯

📍 重庆市渝北区渝星广场D2A

📞 400-110-0866

🌐 onemo.10086.com

✉ smartmodule@cmiot.chinamobile.com