

4G M2M module ME909s-120 V2

Brief introduction

- ME909s-120 V2 is a high-quality 4G module based on Hisilicon Balong711 platform
- Wide operating temperature range, strong anti-electromagnetic interference ability, good consistency of signal transmission power, high sensitivity, strong reliability, superior performance under various harsh environments

Application scenario

Suitable for industrial routers, energy and power management, security monitoring, etc.

Key features

Reliability

- Wide operating temperature range:
-40°C~+85°C

RF performance

- High performance of reception sensitivity, better than required by 3GPP
- Good consistency of transmit power (target power $\pm 1.5\text{dB}$)

Security

- DataLock mechanism prevents accessing from illegal users

Easy integration

- Simplified system architecture
- Simplified sleep & wake-up mechanism

Specification

Feature	Description
Chipset	Hisilicon Balong711
Region	EMEA, Latin American
Form Factor	145pin LGA, 30 mm × 30 mm × 2.52 mm (L x W x H)
Frequency band	LTE FDD: B1/B2/B3/B5/B7/B8/B20
	UMTS: B1/B2/B5/B8
	GSM/GPRS/EDGE: 850 MHz/900 MHz/1800 MHz/1900 MHz
Data Throughput	LTE FDD: UL 50 Mbit/s; DL 150 Mbit/s @20M BW cat4
	DC-HSPA+: UL 5.76Mbit/s; DL 42Mbit/s
	WCDMA: UL 384kbit/s; DL 384kbit/s
	EDGE: UL 236.8kbit/s; DL 236.8kbit/s
	GPRS DL: UL 85.6kbit/s; DL 85.6kbit/s
SMS	Support MO and MT ; Support TEXT format and PDU format
Work Voltage	3.8 V ~ 4.2 V (4.0 V, Typical)

Specification

Feature		Description
Hardware Interface	UART	2 UART0: 8 wires UART, used for communication and AT Command input; UART2: Linux debug log output;
	USB 2.0	1 USB 2.0, Support USB slave;
	USIM	1 SIM Signal, connect to external SIM card/chip
	PCM	1 PCM Audio Signal
	GPIO	5 5 Pins GPIO
	ADC	2 Analog signal, used for antenna detection, temperature detection, etc
	JTAG	1 Support JTAG interface
	Antenna	2 Main(TRX),Diversity(RX)
Weight		~5g
Work Temperature		-40°C ~ +85°C
Storage Temperature		-40°C ~ +95°C
Humidity		RH5% ~ RH95%
Certification		CE/GCF/RoHS/WEEE