

Air780EA/EU

LTE Cat.1 module.



Air780EA/EU is an LTE Cat.1 bis communication module launched by Shanghai AirM2M Communication Technology Co.,Ltd; Air780EA/EU adopts the Eigencomm EC618 platform and supports LTE 3GPP Rel.13 technology; Air780EA/EU strives to maximize coverage of overseas cellular network frequency bands, making it widely applicable to IoT application scenarios in overseas markets

- Air780EA/EU supports dual SIM channel;
- Air780EA/EU supports SPI LCD;
- Air780EA/EU supports USB 2.0;
- Air780EA/EU supports I2S digital voice interface;

Air780EA/EU supports various development methods such as USB modem, standard AT commands, LuatOS, CSDK open CPU development, etc., and can provide professional and timely online technical support. For more information, please visit www.openluat.com.

Air780EA/EU has built-in rich network protocols, integrates multiple industrial standard interfaces, and supports various drivers and software functions (such as USB drivers under operating systems such as Windows 7/8/8.1/10, Linux and Android), greatly expanding its application range in the M2M field, such as CPE, routers, data cards, tablets, vehicle-borne devices, security, and industrial-grade PDAs, etc.



Features

- ✓ FOTA upgrade (supports Luat cloud platform or custom cloud platform)
- ✓ Supports network coverage in multiple overseas regions
- ✓ Ultimate small packaging to meet the space requirements of small terminal products.
- ✓ Supports multiple drivers and software functions, such as USB drivers under operating systems like Windows, Linux, Android, and more.
- ✓ Ultra-low power consumption, with sleep power consumption as low as 600uA.



LTE Cat.1 bis
Max 10Mbps (DL)
Max 5Mbps (UL)



LGA packaging



Multiple network protocols



USB 2.0



Standard AT commands.



LuatOS Open CPU

Air780EA/EU

LTE Cat.1 module

Frequency band

LTE-FDD: B1/B3/B5*/B7/B8/B20*/B28

Data rate

LTE-FDD:

Max 10Mbps (DL)/Max 5Mbps (UL)

Interface

1 high-speed USB 2.0 interface (up to 480Mbps)

Dual 1.8V/3.0V (U)SIM card interfaces

2 NETLIGHT interfaces

(NET_STATUS and STATUS)

1 digital I2S interface, supports external codec

3 UART interfaces

(Main UART, AUX UART, Debug UART)

1 SPI LCD interface

PWRKEY (active low)

2 ADC interface

Electrical Feature

RF Power:

LTE-TDD: Class3(23dBm+1/-3dB)

LTE-FDD: Class3(23dBm+2dB)

Power consumption:

1uA @Power OFF

0.6mA @Sleep

mode, Typical

RF sensitivity:

FDD B1: -99dBm (10M)

FDD B3: -99dBm (10M)

FDD B5: -99dBm (10M)

FDD B7: -97.5 dBm (10M)

FDD B8: -98dBm (10M)

FDD B20: -98dBm (10M)

FDD B28: -98dBm (10M)

Dimension:

(17.7±0.15) mm x (15.8±0.15) mm x (2.3±0.15) mm

General characteristics

3GPP E-UTRA Release 13

Bandwidth: 1.4/3/5/10/15/20MHz

Temperature: -40°C~+85°C

Weight:3.2g

Power supply: 3.3V~4.3V typical 3.8V

Software features

USB driver:

Windows7/8.1/10

Linux/Android

RNDIS driver:

Windows 7/8/8.1/10

Linux/Android

ECM driver:

Linux/Android

Network protocol:

TCP/UDP/PPP/HTTP/NITZ/NDIS/NTP/HTTPS/MQTT

Model	Air780EA	Air780EU
LTE-FDD	B1/B3/B5/B7/B8/B28	B1/B3/B7/B8/B20/B28
LTE-TDD	/	/
I2S	Support	Support
I/O level	1.8V/3.3V Adjustable	1.8V/3.3V Adjustable
Package	LGA 109PIN	LGA 109PIN
WiFi scan	Support	Support
Region	Southeast Asia;	Europe, Middle East, Africa

