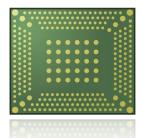
SIM7800E

LTE Module for Automotive













The SIM7800E is a Multi-Band LTE-TDD/LTE-FDD/HSPA+ and Dual-Band GSM/GPRS/EDGE automotive grade module which supports LTE CAT4 up to 150Mbps for downlink and 50Mbps for uplink data transfer.

a SUISEA AIDT company

SIM7800E is designed and manufactured according to IATF 16949:2016 quality management system, it is targeted at the IoV (Internet of Vehicles) applications.

It has strong extension capability with abundant interfaces including UART, SDIO,I2C,SPI, GPIO etc. The module provides much flexibility and ease of integration for customer's application, and its excellent performance in ESD and EMI protection ensures great robustness in harsh environments.

Key Benefits

- Compliant with automotive quality management system IATF 16949:2016.
- Wide operation temperature range (-40° C to +85° C) for automotive application.
- Excellent EMC protection ensures great robustness even in harsh environments.
- Compact SMT form factor with LGA pads ideal for integration in automotive devices.
- With abundant interfaces and abundant application capability, provides much flexibility and ease of integration for customer's application.

Smart machine Smart decision

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General Features

TDD-LTE B38/B40/B41

FDD-LTE B1/B3/B5/B7/B8/B20

UMTS/HSPA+ B1/B5/B8

GSM/GPRS/EDGE 900/1800 MHz

Control Via AT Commands

Supply voltage range: 3.3V[~] 4.3V

Operation temperature: -40°Cto +85°C

Dimension: 34*40*3.1 mm

Weight:8.7g \pm 0.2g

GNSS:

gpsOneGen8C;standalone;GPS/GLONASS/Beidou2/Galileo;

AGPS(SUPL2.0);XTRA;LBS

Data

LTE CAT4

-Uplink up to 50Mbps,

-Downlink up to 150Mbps

HSPA+

-Uplink up to 5.76Mbps,

-Downlink up to 42 Mbps

UMTS

-Uplink/Downlink up to 384Kbps

EDGE Class

-Uplink/Downlink up to 236.8Kbps

GPRS

-Uplink/Downlink up to 85.6Kbps

Other Features

USB Driver for Microsoft Windows

2000/XP/Vista/Win7/Win8/Win10

USB Driver for Linux /Android

RIL supporting for Android

Firmware update via USB

TCP/IP/IPV4/IPV6 Multi-PDP/FTPS/HTTPS/DNS/COAP/MQTT

DTMF/TTS/eCall

S-FOTA: OTA downlaod solution/Local security upgrade/S-Delta

solution

Security:Trustzone/Secure boot

S-FS: Optimize Linux UBI filesystem/Backup and restore

mechanism

Open development: Windows SDK/Open Linux

WIFI: support 2.4G/5G mode; AP+STA; Max of Connection

number: 30 (with W59 module)

BT:BT 3.0 SPP/BLE 4.2 (with W59 module)

Multimedia: Play/record multimedia files

Virtual Ethernet: RNDIS/NDIS
Antenna diagnostics

Interfaces

USB 2.0 Interface with OTG Function

UART *3

I2C

I2S

SPI

HSIC

SDIO

SD Card

ADC *3

SGMII Interface

GPIO *5

1.8V/3.0V USIM Interface

Certifications(plan)

CE

RoHS / REACH

Smart machine Smart decision

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