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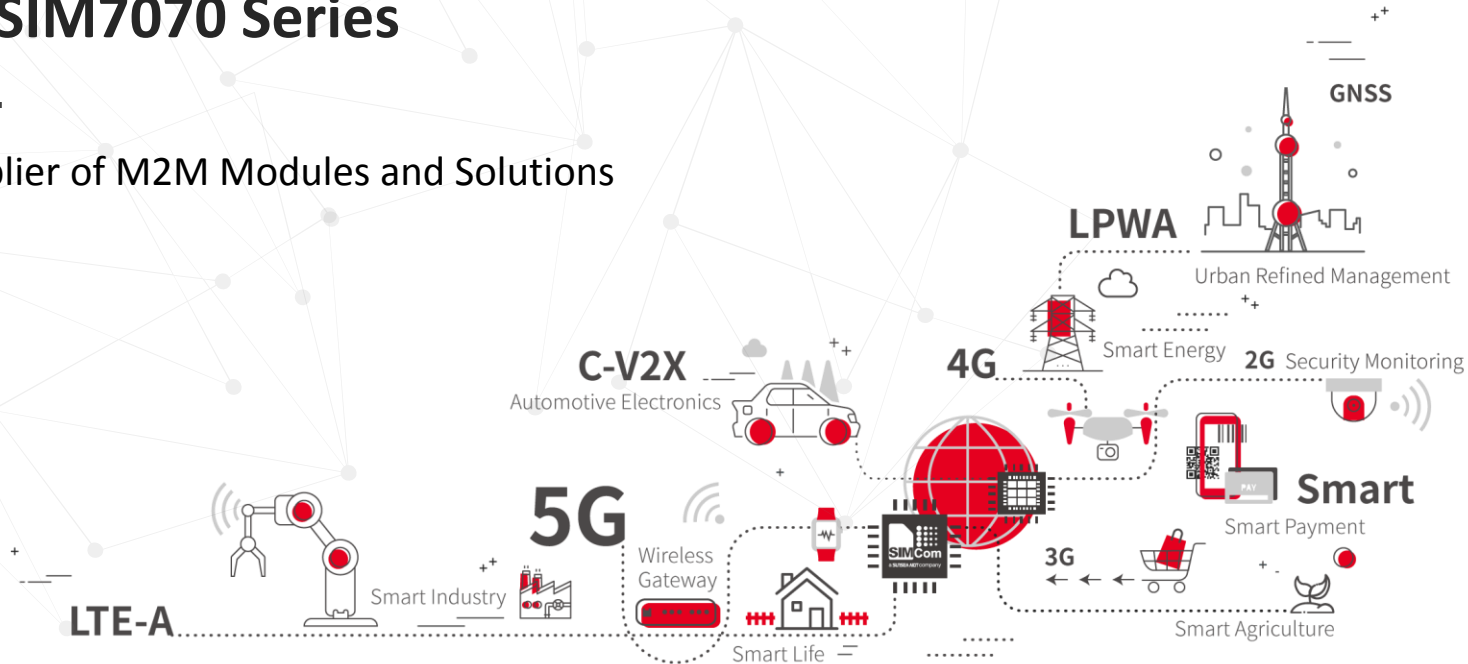
Smart Living- SIM7070 Series

World's Leading Supplier of M2M Modules and Solutions

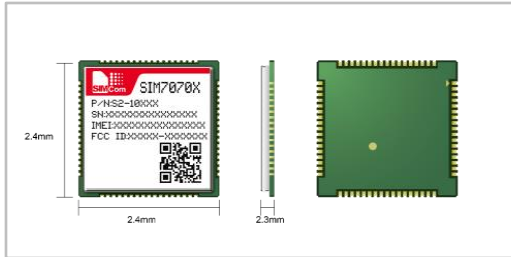
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LPWA Module- SIM7070 Series



LTE CAT M1/NB2/EGPRS

Embedded

Key Benefits

- Combine all key wireless technology into one module
- Best in class power consumption current with eDRX and PSM
- Design once and deploy globally with SIM7070 family
- Compliant to 3GPP Rel.14 Cat M1/NB2
Ideal solution for global IoT applications

Product General Features

- Package: 68pin LCC
- Dimension: 24.0x24.0x2.3mm
- Supply voltage range: 3.0~4.6V, optimized for power consumption
- Operating temperature -40 to 85 °C
- 3GPP release 14 compliant
- Half Duplex FDD , Single Rx, single antenna
- Date rate:
 - LTE Cat M1 (Rel.14) : DL 589Kbps / UL 1119Kbps
 - LTE Cat NB2(Rel.14): DL 127Kbps / UL 158.5Kbps
 - EGPRS : DL 296Kbps / UL 236.8Kbps
- Optional embedded GNSS (GPS, GLONASS, Beidou, Galileo)
- Variants :
 - **SIM7070G** : Cat M1/NB2/EGPRS
Global Bands, LTE Power Class 5@21dBm
 - **SIM7070G-MN**: Cat M1/NB2
Global Bands, LTE Power Class 5@21dBm
 - **SIM7070G-M**: Cat M1 only
Global Bands, LTE Power Class 5@21dBm
 - **SIM7070E** : Cat M1/NB2/EGPRS
Global Bands ,LTE 450MHz Class 2 @26dBm*
 - **SIM7070G-HP**: Cat M1/NB2/EGPRS
Global Bands, LTE Power Class 3@23dbm
- Compatible with SIM7000/SIM800F/SIM900
- Optional 2x2mm package eSIM included
- Control via AT commands according to 3GPP TS27.005.27.007and customized SIMCOM AT commands
- mPCIe interface module available

Interfaces

- Pads for LTE Antenna and GNSS antenna
- USB2.0 HS interface up to 480Mbps
- High-speed UART interface
- Digital Audio Interface (PCM interface)
- GPIO pins
- I2C,SPI ADC interface
- UICC and U/SIM card 1.8V

Key Software Features

- VoLTE support
- IPv4/IPv6 stack with TCP/UDP Protocol
- Secure Connection with TLS/DTLS
- Internet Services: TCP/UDP/MQTT/FTP/FTPS/HTTP/HTTPS/COAP
- OMA Lightweight M2M (LWM2M)
- Firmware update via interface and OTA

Drivers

- Driver for Windows 7/8/10
- Driver for Linux

Key Applications

- Smart Meter
- Asset tracking
- POS
- Industry
- Digital Signature
- Healthcare

SIM7070E dedicated for Metering Application



Support LTE 450MHz

Cat-M/NB-IoT/GSM Module SIM7070E
& NB-IoT Module SIM7060R



SIM7070E Support Bands:

CAT-M:

B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B31/B66/B72/B85

CAT-NB: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B31/B66/B85

GSM/GPRS: 850/900/1800/1900MHz

Dimensions: 24 X 24 X 2.3 mm

Package: LCC

Transmit power: Power class 2 (+26dBm) for LTE bands 31 and 72 and power class 5 (+20dBm) for other

GNSS: GPS, GLONASS, Galileo, Beidou

Interface: UART/SIM card/PCM/I2S/SPI/I2C/GPIO/ADC/USB/Embedded SIM (optional)

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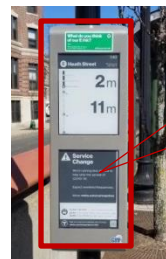
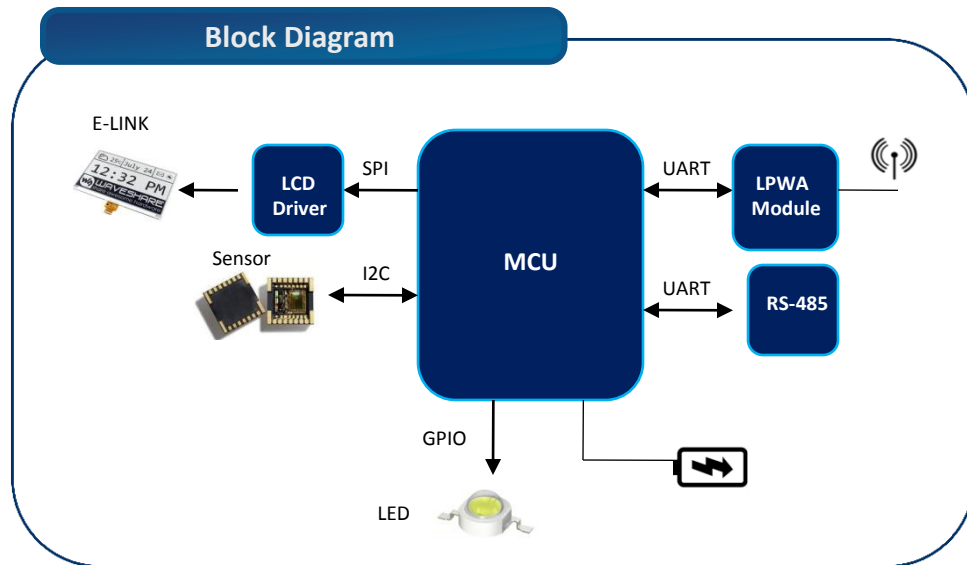
Smart Digital Signage for Transportation

✓ Solution

- Real-time update when the buses will arrive at bus station
- Real-time weather report including temperature, humidity
- Optimize operating cost

✓ Benefits

- Recommended Product: LPWA Module
 - **SIM7070 Series** (24x24 family)
 - **SIM7080 Series** (17.6x15.7 family)
- Ultra low standby power consumption
- Deliver reliable connectivity
- Combine all key wireless technology inside





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Thank you

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