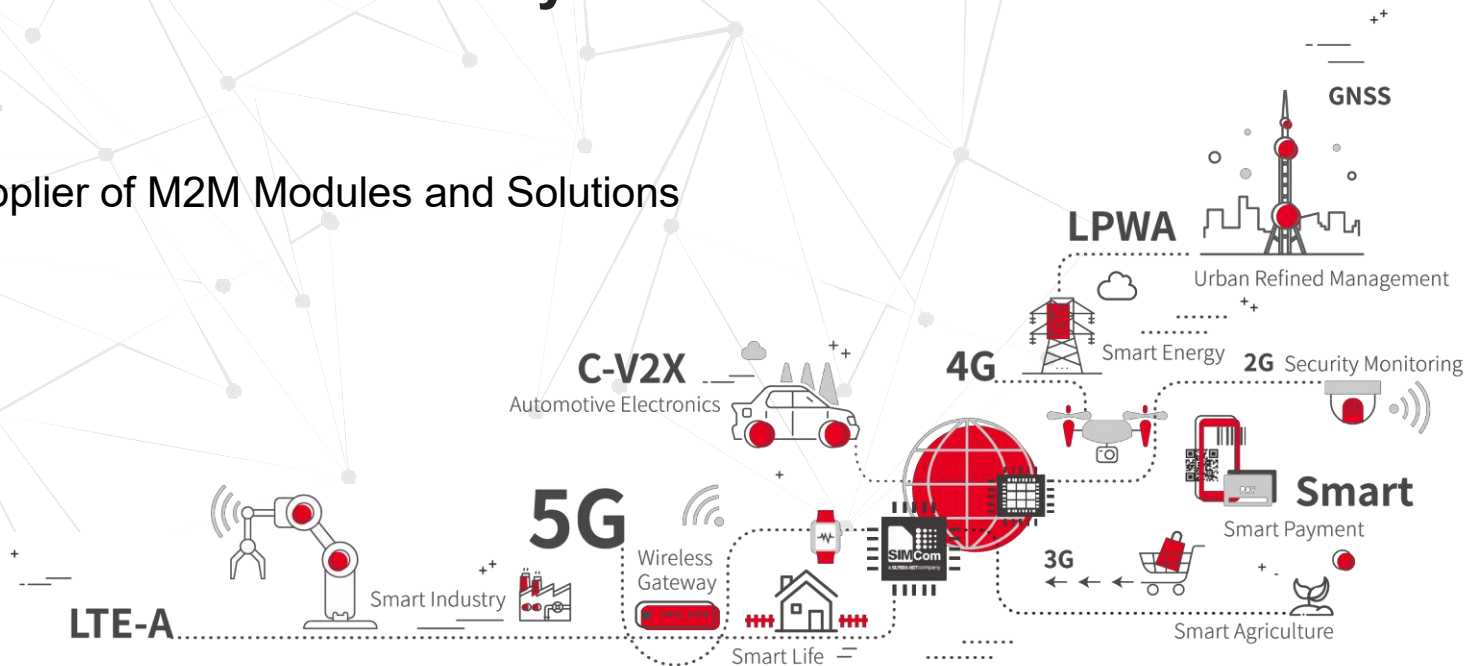




SIMCom LTE CAT4 Module Family Introduction

World's Leading Supplier of M2M Modules and Solutions

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LTE CAT4 Module Product Roadmap

before

2023

2024~

CAT 4
150M/50M

30x30mm



**SIM7600CE/
SIM7600X-H Series**

30x30mm
-E/-V/-A/-NA/-JC/-SA/-G



A7600C/A7602E-H/A7602SA-H

China/EMEA/South America
30x30mm



A7606C/A7606E-H
30x30mm
Linux
Max 4Gb+2Gb

24Q1

29x32mm



SIM7605CE/SIM7605E-H

29x32mm
China/EMEA



A7605C/A7605E-H

29x32mm

M.2



A7600C-M2/A7602E-H-M2

M.2
China/EMEA
30.0*42.0*2.3mm

24x24mm

MDM9x07

ASR1803

ASR1806

24Q2

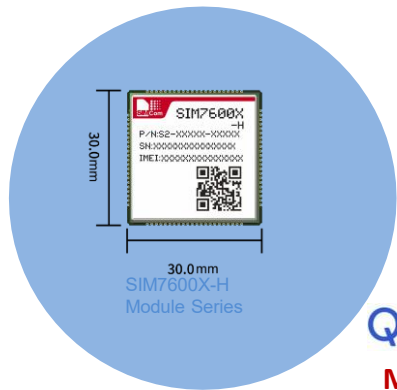


A7570C/A7570X-H

24x24mm
-C/-E/-SA
LTE+WCDMA
Data only

ASR1803SC

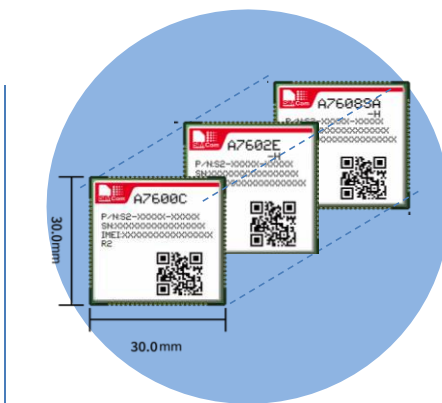
LTE Cat.4 modules Solution



Qualcomm
MDM9x07

Module Platform Key Features :

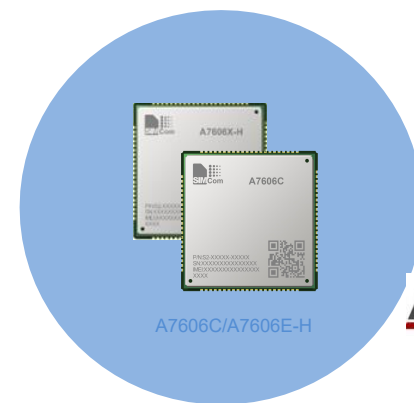
- Integrated Powerful CPU ARM Cortex [A7@1.3GHz](#)
- Multi-Mode and Multi-Band support- LTE FDD/LTE-TDD/ HSPA+/UMTS/EVDO/CDMA/EDGE/GPRS/GSM
- Peak data rate : 150M DL/50Mbps UL
- OS-Linux ,Support Open Linux SDK for customized development
- Integrated Multi-mode GNSS – GPS/GLONASS/BeiDou/Galileo/QZSS
- Rich peripherals and interfaces for a variant of applications
- Star products in LTE module series which cover most of global operator certification



ASR
ASR1803

Module Platform Key Features :

- Integrated Powerful CPU ARM Cortex [A7@1.2GHz](#)
- Multi-Mode and Multi-Band support- LTE-FDD/LTE-TDD/ HSPA+/UMTS/EDGE/GPRS/GSM
- Peak data rate : 150M DL/50Mbps UL
- Integrated RAM [1Gbit\(max\)](#)
- OS- RTOS and Linux different version . For Linux version, it supports Open CPU Linux SDK for customized development
- Rich peripherals and interfaces for different applications
- GNSS positioning optional
- VoLTE/Analog Audio support










ASR
ASR1806

Module Platform Key Features :

- Integrated Powerful CPU ARM Cortex [A7@1.5GHz](#)
- Multi-Mode and Multi-Band support- LTE-FDD/LTE-TDD/ HSPA+/UMTS/EDGE/GPRS/GSM
- Peak data rate : 150M DL/50Mbps UL
- Integrated RAM [2Gbit\(max\)](#)
- OS-Linux ,Supports Open CPU Linux SDK for customized development
- Rich peripherals and interfaces for different applications
- LCD Controller up to 480X854
- 0.3M camera
- GNSS positioning optional
- VoLTE/Analog Audio support

LTE Cat.4 modules for different regions

LTE Cat.4		SIM7600CE SIM7600X-H Series	SIM7605CE /SIM7605E-H	A7600C A7602X-H Series	A7605C/A7605X-H	A7600C-M2/ A7602E-H-M2	A7570C/A7570X-H	A7606C/ A7606X-H Series
Module							 24Q2	 24Q1
Platform		MDM9x07			ASR1803			ASR1806
Dimension		30*30mm	29*32mm	30*30mm	29*32mm	30*42mm	24*24mm	30*30mm
Region	China/India	SIM7600CE	SIM7605CE	A7600C	A7605C	A7600C-M2	A7570C	A7606C
	EMEA	SIM7600E-H	SIM7605E-H	A7602E-H	A7605E-H	A7602E-H-M2	A7570E-H	A7606E-H
	North America	SIM7600A-H(AT&T) EOL SIM7600V-H (Verizon) EOL	/	/	/	/	/	/
	Japan	SIM7600JC-H SIM7600JC-HG	/	/	/	/	/	/
	South America, Taiwan	SIM7600SA-H	/	A7608SA-H	/	/	A7570SA-H	/
	Oceania	SIM7600SA-H	/	A7602E-H	/	/	A7570E-H	/
	Global	SIM7600G-H	/	/	/	/	/	/

LTE Cat.4 Module Specifications(North America /Global)



Module P/N	SIM7600A-H (EOL)	SIM7600V-H (EOL)	SIM7600NA-H	SIM7600G-H	SIM7600G-H(D)
Network Mode	LTE Cat 4 150M/50M				
Dimensions	30*30*2.9mm				
Platform	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
Package	87pin LCC	87pin LCC	119pin LCC+LGA	119pin LCC+LGA	119pin LCC+LGA
Frequency Band	LTE-FDD: B2/4/12 UMTS/HSPA+ : B2/5	LTE-FDD: B2/4/5/13	LTE-FDD:B2/4/5/12/13/14 /25/26/66/71 LTE-TDD: B41	LTE-FDD: B1/2/3/4/5/7/8/12/13/18 /19/20/25/26/28/66 LTE-TDD: B34/38/39/40/41 UMTS/HSPA+: B1/2/4/5/6/8/19 GSM:850/900/1800/1900MHz	LTE-FDD: B1/2/3/4/5/7/8/12/13/18 /19/20/25/26/28/66 LTE-TDD: B34/38/39/40/41 UMTS/HSPA+: B1/2/4/5/6/8/19 GSM:850/900/1800/1900MHz
GNSS	Optional	Optional	Optional	Optional	Optional
Voice	Optional	Optional	Optional	Optional	NA
Region	North America AT&T	North America Verizon	North America AT&T, Verizon, T-Mobile	Global	Global
Certification	FCC/IC/PTCRB/ AT&T RoHS/REACH	FCC/GCF/ Verizon/ RoHS/REACH	FCC/IC/PTCRB/GCF/ AT&T/Verizon/T-Mobile/ US Cellular/Rogers* RoHS/REACH	CCC/SRRC/JATE/TELEC/KC/ IMDA/CE/RCM/FCC/IC/NCC/ Anatel/ICASA/UKCA/NBTC/ PTCRB/GCF/AT&T/Verizon/ T-Mobile/US Cellular/Telstra/ Deutsche Telekom/Orange /RoHS/REACH	CCC/SRRC/JATE/TELEC/KC/ IMDA/CE/RCM/FCC/IC/NCC/ Anatel/ICASA/UKCA/NBTC/ PTCRB/GCF/AT&T/Verizon/ T-Mobile/US Cellular/Telstra/ Deutsche Telekom/Orange /RoHS/REACH

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LTE Cat.4 Module Specifications (EMEA)



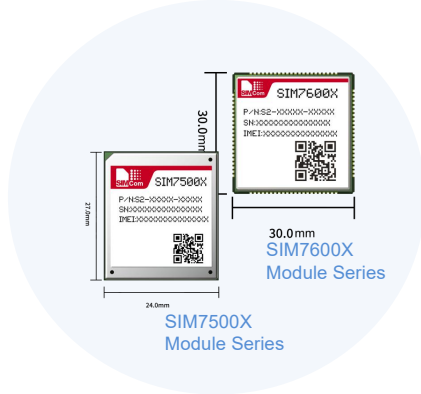
Module P/N	SIM7600E-H	SIM7600E-H1C(D)	A7602E-H	A7606E-H	SIM7605E-H	A7605E-H	A7570E-H
Network Mode	LTE Cat 4 150M/50M						
Dimensions	30*30*2.9mm	30*30*2.9mm	30*30*2.5mm	30*30*2.5mm	29*32*2.5mm	29*32*2.5mm	24*24*2.5mm
Platform	MDM9x07	MDM9x07	ASR1803	ASR1806	MDM9x07	ASR1803	ASR1803SC
Package	87pin LCC	87pin LCC	163pin LCC+LGA	163pin LCC+LGA	130pin LCC+LGA	130pin LCC+LGA	142pin LCC+LGA
Frequency Band	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20 UMTS/HSPA+: B1/5/8 GSM:900/1800MHz	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20 UMTS/HSPA+: B1/5/8 GSM:900/1800MHz	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20/28 UMTS/HSPA+: B1/5/8 GSM:900/1800MHz	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20/28 UMTS/HSPA+: B1/5/8 GSM:900/1800MHz	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20 UMTS/HSPA+: B1/5/8 GSM:900/1800MHz	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20/28 UMTS/HSPA+: B1/5/8 GSM:900/1800MHz	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20/28 UMTS/HSPA+: B1/5/8
GNSS	Optional	Optional	Optional	Optional	Optional	Optional	NA
Voice	Optional	Optional	Analog	Analog	Optional	Analog	NA
Region	EMEA	EMEA	EMEA/Oceania	EMEA/Oceania	EMEA	EMEA/Oceania	EMEA/Oceania
Certification	CE/IMDA/UKCA/NCC/GCF/VDF*/Deutsche Telekom/RoHS/REACH	CE/UKCA RoHS/REACH	CE/UKCA/RCM RoHS/REACH	CE*/UKCA*/RCM* RoHS*/REACH*	CE/RoHS/REACH	CE/RoHS/REACH	Plan: CE/UKCA/RCM RoHS/REACH

LTE Cat.4 Module Specifications (Japan/South America/Oceania)

24Q2

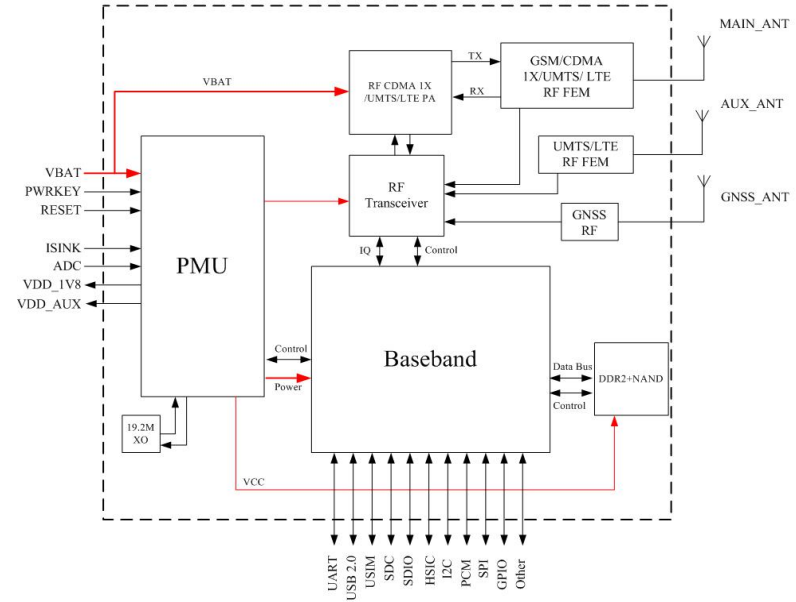
Module P/N	SIM7600JC-H	SIM7600JC-HG	SIM7600SA-H	A7608SA-H	A7570SA-H
Network Mode	LTE Cat 4 150M/50M				
Dimensions	30*30*2.9mm	30*30*2.9mm	30*30*2.9mm	30*30*2.5mm	24*24*2.5mm
Platform	MDM9x07	MDM9x07	MDM9x07	ASR1803	ASR1803SC
Package	87pin LCC	87pin LCC	87pin LCC	163pin LCC+LGA	142pin LCC+LGA
Frequency Band	LTE-FDD:B1/3/8/18/19/26	LTE-TDD: B39/B41 LTE-FDD:B1/3/8/18/19/26	LTE-TDD: B40 LTE-FDD: B1/2/3/4/5/7/8/28/66 UMTS/HSPA+:B1/2/5/8 GSM: 850/900/1800/1900MHz	LTE-TDD: B40 LTE-FDD: B1/2/3/4/5/7/8/20/28/66 UMTS/HSPA+:B1/2/5/8 GSM: 850/900/1800/1900MHz	TDD:B38/B40/B41 FDD:B1/B2/B3/B4/B5/B7/B8/B20(B1 2)/B28/B66 WCDMA:B1/B2/B5/B8
GNSS	Optional	Optional	Optional	Optional	NA
Voice	Optional	Optional	Optional	Analog	NA
Region	Japan	Japan	South America, Oceania, Taiwan	South America, Taiwan	South America
Certification	TELEC/JATE/ Softbank/DoCoMo/KDDI/ RoHS/REACH	TELEC/JATE/ RoHS/REACH	CE/RCM/NCC/Anatel/ RoHS/REACH/	FCC/Anatel/ RoHS/REACH	Plan: Anatel RoHS/REACH

SIM7600X & SIM7500X Module Series Overview



Module Platform Key Features :

- Integrated Powerful CPU ARM Cortex A7@1.3GHz
- Multi-Mode and Multi-Band support- LTE FDD/ LTE-TDD/ HSPA+/UMTS/EVDO/CDMA/EDGE/GPRS/GSM
- Peak data rate : 10M DL/5Mbps UL
- OS-Linux ,Support Open Linux SDK for customized development
- Integrated Multi-mode GNSS – GPS/GLONASS/BeiDou/Galileo/QZSS
- Rich peripherals and interfaces for a variant of applications
- Star products in LTE module series which cover most of global operator certification



Module Hardware Block Program

SIM7600X LTE Cat.1 Module Specifications



Module P/N	SIM7600A (EOL)	SIM7600E	SIM7600SA	SIM7600NA	SIM7600G	SIM7600G(D)
Network Mode	LTE Cat 1 10M/5M					
Dimensions	30*30*2.9mm					
Package	87pin LCC	87pin LCC	87pin LCC	119pin LCC+LGA	119pin LCC+LGA	119pin LCC+LGA
Frequency Band	LTE-FDD: B2/4/12 UMTS/HSPA+ :B2/5	LTE-TDD :B38/40/41 LTE-FDD:B1/3/5/7/8/20 UMTS/HSPA+ : B1/5/8 GSM:900/1800MHz	LTE-TDD: B40 LTE-FDD: B1/2/3/4/5/7/8/28/66 UMTS/HSPA+ :B1/2/5/8 GSM: 850/900/1800/1900MHz	LTE-FDD:B2/4/5/12/13/14/25 /26/66/71 LTE-TDD: B41	LTE-FDD: B1/2/3/4/5/7/8/12/13/18 /19/20/25/26/28/66 LTE-TDD: B34/38/39/40/41 UMTS/HSPA+ : B1/2/4/5/6/8/19 GSM:850/900/1800/1900MHz	LTE-FDD: B1/2/3/4/5/7/8/12/13/18 /19/20/25/26/28/66 LTE-TDD: B34/38/39/40/41 UMTS/HSPA+ : B1/2/4/5/6/8/19 GSM:850/900/1800/1900MHz
GNSS	Optional	Optional	Optional	Optional	Optional	Optional
Voice	Optional	Optional	Optional	Optional	Optional	NA
Region	North America AT&T	EMEA	South America, Oceania, Taiwan	North America AT&T, Verizon, T-Mobile	Global	Global
Certification	FCC/IC/Anatel/PTCRB/ AT&T/Rogers/ RoHS/REACH	CE/IMDA/UKCA/NCC/G CF/ VDF*/Deutsche Telekom/ Orange RoHS/REACH	CE/RCM/NCC/Anatel/ Telstra/ RoHS/REACH/	FCC/IC/PTCRB/GCF/ AT&T/Verizon/T-Mobile/ US Cellular/Rogers RoHS/REACH	CCC/SRRC/JATE/TELEC/ IMDA/CE/RCM/FCC/IC/FAC*/ Anatel/ICASA/UKCA/PTCRB/G CF/ AT&T/Verizon/T-Mobile/US Cellular /Deutsche Telekom/Orange RoHS/REACH	CCC/SRRC/JATE/TELEC/ IMDA/CE/RCM/FCC/IC/FAC*/ Anatel/ICASA/UKCA/PTCRB/G CF/ AT&T/Verizon/T-Mobile/US Cellular /Deutsche Telekom/Orange RoHS/REACH

SIM7500X LTE Cat.1 Module Specifications



Module P/N	SIM7500A (EOL) SIM7500A+	SIM7500V (EOL) SIM7500V R2	SIM7500AD (EOL)	SIM7500E	SIM7500JC	SIM7500JE	SIM7500SA
Network Mode	LTE Cat 1 10M/5M						
Dimensions	24.0*27.0*2.75mm						
Package	56pin LGA Package	56pin LGA Package	56pin LGA Package	56pin LGA Package	56pin LGA Package	56pin LGA Package	56pin LGA Package
Frequency Band	LTE-FDD: B2/4/12 UMTS/HSPA+: B2/B5	LTE-FDD: B4/13	LTE-FDD: B2/4/12 UMTS/HSPA/HSPA+: B2/5	LTE-FDD: B1/3/7/8/20 UMTS/HSPA+: B1/8 GSM: 900/1800MHz	LTE-FDD: B1/18/19/26	LTE-FDD: B1/3/8	LTE-FDD: B1/3/5/7/8/28 UMTS/HSPA+: B1/5
GNSS	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Voice	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Region	North America AT&T	North America Verizon	North America T-Mobile	EMEA	Japan	Japan Softbank	South America, Oceania, Taiwan
Certification	FCC/PTCRB/IC/ AT&T/Rogers/ RoHS/REACH	FCC*/PTCRB*/ Verizon*/ RoHS*/REACH*	FCC/PTCRB/ TMO/ RoHS/REACH	CE/ Deutsche Telekom/ RoHS/REACH	JATE/TELEC/ DoCoMo/KDDI/ RoHS/REACH	JATE/TELEC/ Softbank/ RoHS/REACH/	CE/RCM/NCC/ Telstra/ RoHS/REACH

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Thank you

www.simcom.com

Address: SIMCom Headquarters Building, Building 3, No. 289 Linhong Road,
Changning District, Shanghai P.R.China , 200335
Tel.: +86 21 31575100
Email: simcom@simcom.com
Website: www.simcom.com

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