A8230X
SIMCom 5G RedCap Module

30mm

30mm   2.6mm

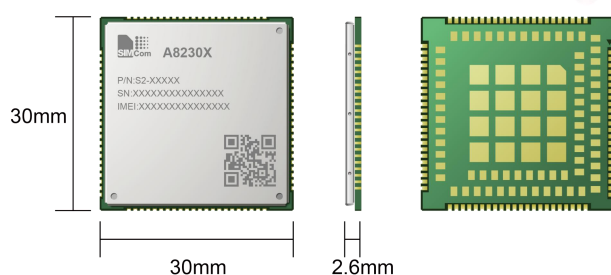|		
5G NR	Sub-6	LGA+LCC
RedCap	VoNR	RTOS
TCP/IP	USB 2.0	SSL

Product Description

A8230 is a Multi-Band 5G NR/LTE-FDD/LTE-TDD module which supports R17 5G SA.

With rich protocols and multiple drivers, it is integrated with interfaces such as PCIe, USB2.0, and GPIO, This module provides applications with great flexibility and ability of integration.

A8230 is compatible with various drivers and software functionalities, including USB/PCIe drivers for operating systems like RTOS, Windows, Linux, and Android, providing exceptional flexibility and integration capabilities for applications.

A8230 adopts LGA form factor. AT commands of A8230 are compatible with SIM7600/8200/8260 series modules. This also reduces costs for customer and shortens time to market.

It is designed for applications that need huge data transmission in various wireless situations. Due to its high efficiency, security and flexibility, this module suits various applications.

Key Benefits

◆ LGA+LCC form factor with various interfaces

◆ Medium data transmission

◆ AT commands of SIM8230 compatible with SIM7600/8200/8260 series modules

Product	A8230C	A8230E
Form Factor	**LGA+LCC**	**LGA+LCC**
Dimensions(mm)	30.0*30.0*2.6	30.0*30.0*2.6

Frequency Bands	**5G NR**	**5G NR**	**3GPP Rel-17 RedCap SA operation, Sub-6 GHz, 1T2R**	
		5G NR SA	n1/n3/n5/n8/n28/n40/n41①/ n78①/n79①	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41①/n71*/n 77①/n78①
	LTE	**LTE-FDD**	B1/B3/B5/B8/B28	B1/B3/B5/B7/B8/B20/B28/B71*
		LTE-TDD	B34/B38/B39/B40/B41	B38/B40/B41/B42/B43

Temperature	-30℃ ~ +75℃	-30℃ ~ +75℃

Electrical Features

Supply Voltage(V)	3.3~4.3 V，Typical: 3.8V	3.3~4.3 V，Typical: 3.8V

Data Transfer

NR	Downlink up to 226Mbps, Uplink up to 120Mbps	Downlink up to 226Mbps, Uplink up to 120Mbps
LTE	DL 150Mbps, UL 16QAM 50Mbps	DL 150Mbps, UL 16QAM 50Mbps

Software Features

Protocol		TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTTS/DNS/SSL3.0
FOTA		●
Firmware Upgrade		USB
Driver	**USB Driver**	Windows 8.1/10/11; Linux 2.6~6.7; Android 4.x~13.x
	RIL	Android 4.x~13.x
	PCIe MHI	Windows 8.1/10/11;Linux 2.6~6.7
	USB RNDIS	Microsoft Windows Win7/Win8/Win10/Win11/Linux/Android
	USB MBIM	Windows 10/11; Linux 3.18~6.7
	USB GobiNet	Linux 2.6~6.7
	USB QMI_WWAN	Linux 3.4~6.7

Interfaces

USIM*2	1.8V / 3.0V
UART	●
USB 2.0	●
PCIe 2.0	○
RGMII	○
SDIO3.0	○
I²C	●
SPI	●
ADC	●
GPIO	●

Certifications认证

Regulatory	CCC*/ NAL*/ SRRC*	CE(RED)*/GCF*/ RoHS*/REACH*

●: support　o: optional　 * :means under developing/on-going/planning
① : support Power Class 2 & SRS

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