

GSM & WCDMA Modules Frequency and Supported Operators

Module	Country/Region	Operator*	Frequency
GSM Module	All GSM supported countries and regions**	All GSM supported operators**	850/900/1800/1900 MHz
	USA	AT&T	850/1900MHz
WCDMA Module-A	Canada	Rogers	850/1900MHz
		Bell	850/1900MHz
	Mexico	Telcus	850/1900MHz
		Telcel	850/1900MHz
	Most of the South America Countries	/	850/1900MHz or 1900MHz only
	China	Unicom	2100MHz
WCDMA Module-E	China Taiwan	Chunghwa Telecom	2100MHz
		Taiwan Mobile	2100MHz
		FETnet	2100MHz
		TSTAR	2100MHz
	China Hong Kong	/	2100MHz
	Thailand	AIS	900/2100MHz
	South Korea	SKT	2100MHz
		KT	2100MHz
	Japan	Softbank	900/1500/2100MHz
	Most of the Asia Countries	/	2100MHz or 900/2100MHz
Ukraine	/	2100MHz	
Russia	/	900/2100MHz	
Most of the Europe Countries	/	2100MHz or 900/2100MHz	
Brazil	Nextel	2100MHz	
South Africa	Vodacom	2100MHz	
	MTN	2100MHz	
Australia	Vodafone	900/2100MHz	
	Optus	900/2100MHz	
WCDMA Module-T	Thailand	True Move	850/2100MHz
		DTAC	850/2100MHz
	Brazil	Claro	850/1900/2100MHz
		Teleming	850/1900/2100MHz
		Vivo	850/1900/2100MHz
		TIM	850/2100MHz
		Nextel	2100MHz
	Australia	Telstra	850/2100 MHz

*If your operators are not listed here, please check with them for the frequency they support before purchasing.

**2G GSM network has been shut down in some countries and more and more operators plan to phase out GSM network. It's wise to check with your local operator for GSM support and sunset plan. Please note that network shutdown carried out by operators will not be covered by the warranty.

4G LTE Module Band and Operators

Module	Country/Region	Operator*	LTE Band Support
4G LTE Module-E	China Hong Kong	3 (Three)	B3
		CSL	B3, B7
		SmarTone	B3, B8
		China Mobile	B3, B7, B40
	Thailand	True Move, DTAC	B1
		AIS	B1, B8
	South Korea	SKT	B1, B3, B5
		KT	B1, B3, B8
		LGU+	B1, B5, B7
	Other Asia Regions	/	/
	Italy	3 (Tre)	B3, B7
		Vodafone	B3, B20
		Wind	B7, B20
		TIM, VF, TISM	B3, B7, B20
		H3G	B3, B7, B20, B38
	UK	3 (Three), O2	B3, B20
		EE	B3, B7, B20
		Vodafone	B1, B3, B7, B20
	Spain	Yoigo	B3
		Movistar, Orange	B3, B7
		Telefonica, Vodafone	B3, B7
	France	Free	B7
		Orange, SFR	B7, B20
		Bouygues Télécom	B3, B7, B20
	Russia	Rostelcom	B40
		Vainakh Telecom	B40
		Yota	B7, B20
		MegaFon, Beeline	B7, B20
		VimpelCom, MTS	B7, B20
		Tele2	B3, B7, B20
Other Europe Regions	/	B1, B3, B7, B8, B20	
South Africa	Cell C	B1	
	MTN, NeoTel	B3	
	Vodacom	B3	
	Telekom, 8ta	B40	

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Module	Country/Region	Operator*	LTE Band Support
4G LTE Module-A	USA	U.S. Cellular	B12
		AT&T	B2, B4
		Cricket Wireless	B2, B4
		H2O Wireless	B2, B4
		T-Mobile, Ting	B2, B4, B12
		Lycamobile	B2, B4, B12
	Canada	Rogers Wireless	B4
		Bell Wireless	B4
		Videotron, Fido	B4
		Public Mobile	B4
		Virgin Mobile	B4
	Telus	B2, B4, B12	
4G LTE Module-AU	China Taiwan	T Star	B8
		APT	B8, B28
		FarEasTone	B3, B28
		Taiwan Mobile	B3, B28
		Chunghwa Telecom	B3, B7, B8
	Australia	TPG	B7
		NBN & Co	B40
		Vodafone	B3, B5
		Telstra	B1, B3, B28
		Optus, Virgin Mobile	B1, B3, B7, B28, B40
	New Zealand	2degrees	B3
		Spark, Vodafone	B3, B7, B28
	Argentina	Nextel AR	B4
		Telecom Personal	B4
		Movistar AR	B4
	Brazil	Claro, Oi, Vivo	B7
		Nextel	B3
		TIM	B3, B7
	Chile	Claro, Entel	B7
		Movistar	B7
WOM		B4	
Mexico	Telcel, Nextel	B4	
	Movistar	B2	
	Other South America Regions	/	B2, B3, B4, B7, B28
4G LTE Module-J	Japan	NTT DoCoMo	B1, B19
		Softbank	B1, B8, B41
		KDDI	B1, B18, B41
4G LTE Module-CE	China	CMCC	B38, B39, B40, B41
		Unicom, Telecom	B1, B3
	India	Aircel, Bharti Airtel	B3, B40

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