

## 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
		Telcus	850/1900MHz
	Mexico	Telcel	850/1900MHz
	Most of the South America Countries	/	850/1900MHz or 1900MHz only
WCDMA Module-E	China	Unicom	2100MHz
	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	/	B3, B38
	Thailand	True Move	B1
		DTAC	B1
	South Korea	SKT	B3, B5
		KT	B3, B8
		LGU+	B5, B7
	Other Asia Regions	/	/
	Italy	TIM, VF	B3, B7, B20
		H3G	B3, B7, B20, B38
	UK	/	B3
	Spain	Telefonica, VF	B3, B7
	France	/	B3, B7, B20
	Russia	VimpelCom	B7, B20
		MTS, MegaFon	B7, B20, B38
		Rostelcom	B40
Vainakh Telecom		B40	
Other Europe Regions	/	B1, B3, B7, B8, B20	
South Africa	MTN	B3	
	NeoTel	B3	
	Telekom/8ta	B40	
	Vodacom	B3	
4G LTE Module-A	USA	AT&T	B2, B4, B5, B12, B17
		Verizon	B2, B4, B13
		T-Mobile	B2, B4, B12
		Sprint	B25, B26, B41
	Canada	Rogers	B2, B4, B5, B7, B12, B17
4G LTE Module-AU	China Taiwan	Bell	B4, B7
		Telus	B4
		APT	B3, B8, B28
		Chunghwa Telecom	B3, B7, B8
		FarEasTone	B3, B7, B28
	Australia	Taiwan Mobile	B3, B28
		TSTAR	B7, B8
		Telstra	B3, B7, B28
		Optus	B3, B7, B28, B40
	Vodafone	B1, B3, B5, B28	
	TPG	B7	
	NBN & Co	B3, B40	

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Module	Country/Region	Operator*	LTE Band Support
4G LTE Module-AU	New Zealand	2degrees	B3
		Spark	B3, B7, B28
		Vodafone	B3, B7, B28
	Argentina	Claro AR	B4
		Nextel AR	
		Telecom Personal	
	Brazil	Movistar AR	B7
		Claro, Oi, Vivo	
		Tim	
		Nextel	
On Telecom			
Chile	SKY Brazil	B38	
	Claro, Entel, Movistar	B7	
Mexico	Telcel, Movistar, Nextel	B2, B4	
Other South America Regions	/	B2, B3, B4, B7, B13, B17, B28, B38	
4G LTE Module-J	Japan	NTT DoCoMo	B1, B3, B19, B21
		Softbank	B1, B3, B8, B41
		KDDI	B1, B11, B18, B26, B28, B41
4G LTE Module-CE	China	CMCC	B38, B39, B40, B41
		Unicom	B1, B3
		Telecom	B1, B3
	India	Aircel	B3, B40
Bharti Airtel		B3, B40	

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