



Balanstech LTE 模块简介

Balanstech LTE 无线通信解决方案基于成熟商用的 4G 技术，继承了 LTE 的卓越性能，提供多款满足工业级别 M2M 多模多频 LTE 无线通信模块，同时拥有 TD-LTE 核心知识产权，安全保密性强。适用于政府、交通、电力、企业等宽带接入和应急救援场景，是行业专网及公网部署的理想选择。

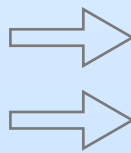


多应用环境

可广泛应用于 CPE、车载、安防监控、跟踪、工业路由器、行业平板、行业手持终端等。



LTE模块系列



LTE CPE



安防监控



行业平板



行业手持终端



工业路由器



机顶盒

LTE全球分布于频段汇总表

3GPP1	3GPP2	Generic Name	Tx-L	Tx-H	Rx-L	Rx-H	Major Operator	Region	System
B1	BC6	WW Core	1920	1980	2110	2170	CU,CT,KDDI,Docomo,Softbank,SKT, LGU+,KT,Vodafone,Orange,MTS	worldwide except N.America,Canada	UMTS CDMA FDD-LTE Rev.B
B2	BC1	PCS	1850	1910	1930	1990	AT&T,VzW,Sprint	China,N.America	GSM UMTS CDMA
B3		DCS	1710	1785	1805	1880	CMCC,CU,SKT,LGU+.KT,T-Mobile,Vodafone,Orange,MTS	China,Europe,Korea,S.American,Russia	GSM UMTS FDD-LTE
B4	BC15	AWS-1	1710	1755	2110	2155	T-Mobile,AT&T	N.America	UMTS CDMA LTE
B5	BC0	cell	824	849	869	894	CT,SKT,LGU+,KDDI,Docomo,AT&T,VzW	N.America,Australia,Korea,Japan,S.America,China	GSM UMTS CDMA Rev.B
B6		Japan cell	830	840	875	885	rebanded to B19	Japan	UMTS CDMA Rev.B
B7		2.5 GHz	2500	2570	2620	2690	TeliaSonera,T-Mobile,Vodafone,CMCC	Europe,Russia,HK,Singapore	FDD-LTE
B8		EGSM	880	915	925	960	CMCC,CU,Softbank,T-Mobile,Vodafone,Orange,MTS	China,Japan,Korea,Europe,Russia,S.America	GSM UMTS
B9		Japan DCS	1750	1785	1845	1880	Docomo,Softbank	Japan	UMTS FDD-LTE
B10		Lat Am AWS	1710	1770	2110	2170		S.America	
B11		JDC reband	1427.9	1452.9	1475.9	1500.9	Softbank,KDDI	Japan	UMTS FDD-LTE
B12		700 lower ABC blocks	699	716	728	746	US Cellular	N.America	FDD-LTE
B13		700 upper,C block	777	787	746	757	VzW	N.America	FDD-LTE
B14		700 upper,D block	788	798	758	768	US Publie Safety	N.America	FDD-LTE
B17		700 lower,BC blocks	704	716	734	746	AT&T	N.America	FDD-LTE
B18		Japan Extended 850MHz	815	830	860	875	KDDI	Japan	FDD-LTE
B19		Japan 850MHz	830	845	875	890	Docomo	Japan	UMTS CDMA FDD-LTE
B20		European Digital Dividend	832	862	791	821	T-Mobile,Vodafone	Europe	FDD-LTE
B21		Japan 1.5GHz LTE	1447.9	1462.9	1459.9	1510.9	Docomo	Japan	FDD-LTE
B22		Japan	3410	3490	3510	3590	Docomo	Japan	FDD-LTE
B23		formerly satellite	2000	2020	2180	2200	Dish Networks	USA	FDD-LTE
B24		formerly satellite	1625.5	1660.5	1525	1529	LightSqured(declined by FCC)	USA	on hold
B25	BC1+BC14	PCS Extension(G Block)	1850	1915	1930	1995	Sprint	N.America	CDMA FDD-LTE
B26	BC0+BC10	B5 Extension	814	849	859	894	Sprint,KT,KDDI	N.America,Japan,Korea	CDMA FDD-LTE
B27			807	824	852	869	Nextel	L.America	
B28		APAC-700	703	748	758	803		Asia	FDD-LTE
B29		700 lower DE blocks			716	728	AT&T	USA	FDD-LTE Rx
B33		Europe TDD	1900	1920	1900	1920	T-Mobile,Vodafone,Orange	Europe	fallow
B34		China TD-LTE	2010	2025	2010	2025	CMCC,MTS	China,Russia	TD-SCDMA
B35		N.America TDD-LTE	1850	1910	1850	1910		N.America(not used)	
B36		N.America TDD-LTE	1930	1990	1930	1990		N.America(not used)	
B37		N.America TDD-LTE	1910	1930	1910	1930		N.America(not used)	
B38		Europe HK TDD	2570	2620	2570	2620	E2,T-Mobile,Vodafone	Europe	TDD-LTE
B39		China TD-LTE	1880	1920	1880	1920	CMCC	China	TD-SCDMA,TDD-LTE
B40		TD WBA	2300	2400	2300	2400	CMCC,Bharti	China,Korea,India,Asia	TDD-LTE,WiMAX
B41		2.5GHz TD-LTE	2496	2690	2496	2690	CMCC,Softbank,Clearwire(Sprint)	China,N.America,Japan	TDD-LTE,WiMAX
B42		TBD	3400	3600	3400	3600	various(ex-WiMAX)	British Telecom	TDD-LTE
B43		TBD	3600	3800	3600	3800	various(ex-WiMAX)		

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B5x Mini PCIe package系列



频段特性

TD-SCDMA

Band 34 2010MHz - 2025MHz

Band 39 1880MHz - 1920MHz

GGE 850/900/1800/1900MHz

TDD-LTE

Band 38 2570MHz - 2620MHz

Band 39 1880MHz - 1920MHz

Band 40 2300MHz - 2400MHz

标准规范

- TD-LTE / Cat4
- HSDPA Cat15 , HSUPA Cat6
- GSM R9
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Follow ITU T Recommendation V.25ter 3GPP 27.005 3GPP 27.007 agreement
- IPV4/IPV6
- Embedded TCP/IP Stack

功能特性

- Sleep Current <5mA
- Standby Average Current <20mA
- Working Current <500mA
- Sleep wake up Support

基本特性

- 52pin Mini PCIe package
- Dimension 50.85(L)*29.9(W)*5.15(H) mm
- Chipset Leadcore 1761
- Charger DC Output voltage 3.135V~4.4V(3.3 V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux
- PCM voice
- SMS MD/MT PDU mode
- PS : LTE <-> 3G <-> GGE支持自动重选及手动切换
- CS : 3G -> GGE支持自动重选及手动切换

理论速率

- LTE UL(50Mbps) DL(150Mbps)
- HSDPA/HSUPA UL(2.2Mbps) DL(2.8Mbps)
- EDGE UL/DL(236Kbps)
- GPRS UL/DL(85.6Kbps)

Transmit Power

- TD-LTE : +23dBm (3GPP Class3)
- TD-SCDMA : +24dBm (Power Class2)
- EDGE 1900/1800MHz : +26dBm (Power Class E2)
- EDGE 900/850MHz : +27dBm (Power Class E2)
- GPRS 1900/1800MHz : +30dBm (Power Class 1)
- GPRS 900/850MHz : +33dBm (Power Class 4)

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

认证

- CTA RoHS Compliant
- CE(TBD)
- ATT(TBD)

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B5x Mini PCIe package系列



基本特性

- 52pin Mini PCIe package
- Dimension 59(L)*30(W)*4.7(H) mm
- Chipset Qualcomm MDM9215/MDM9615
- Charger DC Output voltage 3.135V~4.4V(3.3 V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux
- Voice, Message, Phonebook, Data, GPS
- PS : LTE<->3G<->GGE支持自动重选及手动切换
- CS : 3G ->GGE支持自动重选及手动切换

频段特性

FDD-LTE		UL	DL
Band 1	1920 - 1980(MHz)	2110 - 2170(MHz)	1805 - 1880(MHz)
Band 3	1710 - 1788(MHz)	2620 - 2690(MHz)	925 - 960(MHz)
Band 7	2500 - 2570(MHz)	832 - 862(MHz)	
Band 8	880 - 915(MHz)		
Band 20	719 - 821(MHz)		
WCDMA		UL	DL
Band 1	1920 - 1980(MHz)	2110 - 2170(MHz)	1805 - 1880(MHz)
Band 2	1850 - 1910(MHz)	1930 - 1990(MHz)	869 - 894(MHz)
Band 5	824 - 845(MHz)	925 - 960(MHz)	
Band 8	880 - 915(MHz)		
TDD-LTE			
Band 38	2570MHz - 2620(MHz)		
EVDO BCO			
MS:824.025 - 848.985(MHz)		BS: 869.025 - 893.985(MHz)	
GGE	850/900/1800/1900(MHz)		

理论速率

- LTE UL(50Mbps) DL(100Mbps)
 - HSPA+ UL(5.76Mbps) DL(42Mbps)
 - HSDPA/HSUPA UL(2.2Mbps) DL(2.8Mbps)
 - UMTS UL/DL(384Kbps)
 - EDGE UL/DL(236Kbps)
 - GPRS UL/DL(85.6Kbps)
- Transmit Power
- TDD-LTE : +23dBm (3GPP Class3)
 - FDD-LTE : +23dBm (3GPP Class3)
 - UMTS : +24dBm (Power Class3)
 - TD-SCDMA : +24dBm (Power Class2)
 - EDGE 1900/1800MHz : +26dBm (Power Class E2)
 - EDGE 900/850MHz : +27dBm (Power Class E2)
 - GPRS 1900/1800MHz : +30dBm (Power Class 1)
 - GPRS 900/850MHz : +33dBm (Power Class 4)

标准规范

- LTE-TDD /FDD-LTE Cat3
- HSPA+ Rel10
- HSDPA Cat15 , HSUPA Cat6
- GSM R9
- GPRS multi-slot class 10
- EDGE multi-slot class 12
- Control Via AT Commands
- IPV4/IPV6
- Embedded TCP/IP Stack

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

功能特性

- Sleep Current <5mA
- Standby Average Current <40mA
- Working Current <600mA
- Sleep wake up Support

认证

- CTA RoHS Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

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B5x Mini PCIe package系列



频段特性

TDD-LTE

Band 38	2570MHz - 2620(MHz)	Band 40	2300MHz - 2400(MHz)
Band 39	1880MHz - 1920(MHz)	Band 41	2545MHz - 2575(MHz)

FDD-LTE

	UL	DL
Band 1	1920 - 1980(MHz)	2110 - 2170(MHz)
Band 3	1710 - 1788(MHz)	1805 - 1880(MHz)
Band 7	2500 - 2570(MHz)	2620 - 2690(MHz)

WCDMA

	UL	DL
Band 1	1920 - 1980(MHz)	2110 - 2170(MHz)
Band 2	1850 - 1910(MHz)	1930 - 1990(MHz)
Band 5	824 - 845(MHz)	869 - 894(MHz)
Band 8	880 - 915(MHz)	925 - 960(MHz)

TD-SCDMA

Band 38	2570MHz - 2620(MHz)	Band 40	2300MHz - 2400(MHz)
Band 39	1880MHz - 1920(MHz)	Band 41	2545MHz - 2575(MHz)

GGE 850/900/1800/1900(MHz)

标准规范

- TD-LTE /FDD-LTE Cat4
- HSPA+ Rel10
- HSDPA Cat15 , HSUPA Cat6
- GSM R9
- GPRS multi-slot class 10
- EDGE multi-slot class 12
- 3GPP TS 27.007 and 27.005 Notesinfo
- extended AT command
- IPV4/IPV6
- Embedded TCP/IP Stack

功能特性

- Sleep Current <20mA
- Standby Average Current <40mA
- Working Current <600mA

基本特性

- 52pin Mini PCIe package
- Dimension 51(L)*30.1(W)*4.7(H) mm
- Chipset Baseband(Hi6920)+Tranceiver(Hi6360)+PMU(Hi6451)
- Charger DC Output voltage 3.135V~4.4V(3.3V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- USB driver for Linux/Android
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux
- PCM voice
- SMS MD/MT PDU mode
- PS : LTE<->3G<->GGE支持自动重选及手动切换
- CS : 3G ->GGE支持自动重选及手动切换

理论速率

- LTE UL(50Mbps) DL(100Mbps)
- HSPA+ UL(11Mbps) DL(82Mbps)
- HSDPA/HSUPA UL(2.2Mbps) DL(2.8Mbps)
- UMTS UL/DL(384Kbps)
- EDGE UL/DL(236Kbps)
- GPRS UL/DL(85.6Kbps)

Transmit Power

- TDD-LTE : +23dBm (3GPP Class3)
- FDD-LTE : +23dBm (3GPP Class3)
- UMTS : +24dBm (Power Class3)
- TD-SCDMA : +24dBm (Power Class2)
- EDGE 1900/1800MHz : +26dBm (Power Class E2)
- EDGE 900/850MHz : +27dBm (Power Class E2)
- GPRS 1900/1800MHz : +30dBm (Power Class 1)
- GPRS 900/850MHz : +33dBm (Power Class 4)

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -30°C ~ +80°C
- Humidity 5%~95%

认证

- CTA RoHS Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

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B5x Mini PCIe package系列



基本特性

- 52pin Mini PCIe package
- Dimension 51(L)*30(W)*5(H) mm
- Chipset PXA1802
- Charger DC Output voltage 3.135V~4.4V(3.3 V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux
- PCM voice
- SMS MD/MT PDU mode
- PS : LTE<->3G<->GGE支持自动重选及手动切换
- CS : 3G ->GGE支持自动重选及手动切换

频段特性

TD-SCDMA

Band 34 2010MHz - 2025MHz
Band 39 1880MHz - 1920MHz
GGE 850/900/1800/1900MHz

TDD-LTE

Band 38 2570MHz - 2620MHz
Band 39 1880MHz - 1920MHz
Band 40 2300MHz - 2400MHz
Band 41 2545MHz - 2575MHz

FDD-LTE

	UL	DL
Band 1	1920 - 1980(MHz)	2110 - 2170(MHz)
Band 3	1710 - 1788(MHz)	1805 - 1880(MHz)
Band 7	2500 - 2570(MHz)	2620 - 2690(MHz)

UL

DL

WCDMA

	UL	DL
Band 1	1920 - 1980(MHz)	2110 - 2170(MHz)
Band 2	1850 - 1910(MHz)	1930 - 1990(MHz)
Band 5	824 - 845(MHz)	869 - 894(MHz)
Band 8	880 - 915(MHz)	925 - 960(MHz)

UL

DL

理论速率

- LTE UL(50Mbps) DL(150Mbps)
- HSPA+ UL(5.76Mbps) DL(42Mbps)
- HSDPA/HSUPA UL(2.2Mbps) DL(2.8Mbps)
- UMTS UL/DL(384Kbps)
- EDGE UL/DL(236Kbps)
- GPRS UL/DL(85.6Kbps)

Transmit Power

- TD-LTE : +23dBm (3GPP Class3)
- FDD-LTE : +23dBm (3GPP Class3)
- UMTS : +24dBm (Power Class3)
- TD-SCDMA : +24dBm (Power Class2)
- EDGE 1900/1800MHz : +26dBm (Power Class E2)
- EDGE 900/850MHz : +27dBm (Power Class E2)
- GPRS 1900/1800MHz : +30dBm (Power Class 1)
- GPRS 900/850MHz : +33dBm (Power Class 4)

标准规范

- TD-LTE /FDD-LTE Cat4
- HSPA+ Rel10
- HSDPA Cat15 , HSUPA Cat6
- GSM R9
- GPRS multi-slot class 10
- EDGE multi-slot class 12
- 3GPP TS 27.007 and 27.005 Notesinfo extended AT ● ●
- command
- IPV4/IPV6
- Embedded TCP/IP Stack

功能特性

- Sleep Current <20mA
- Standby Average Current <40mA
- Working Current <600mA

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -30°C ~ +80°C
- Humidity 5%~95%

认证

- CTA RoHS Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

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B5x Mini PCIe package系列



频段特性

TDD-LTE

Band 38 2570MHz - 2620MHz

Band 39 1880MHz - 1920MHz

Band 40 2300MHz - 2400MHz

Band 41 2545MHz - 2575MHz

FDD-LTE

	UL	DL
Band 3	1710 - 1788(MHz)	1805 - 1880(MHz)

标准规范

- TD-LTE /FDD-LTE Cat3
- 3GPP Release 8
- 3GPP TS 27.007 and 27.005 Notesinfo extended AT command
- IPV4/IPV6
- Embedded TCP/IP Stack

功能特性

- Sleep Current <20mA
- Standby Average Current <40mA
- Working Current <600mA
- Sleep Current (TBD)

基本特性

- 52pin Mini PCIe package
- Dimension 51(L)*30(W)*4.5(H) mm
- Chipset ALT3100(BB)+ALT6200(RF)
- Charger DC Output voltage 3.135V~4.4V(3.3 V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- UART 300bps to 230400bps
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux

理论速率

- LTE UL(50Mbps) DL(100Mbps)

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

认证

- CTA/RoHS/FCC Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

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B5x Mini PCIe package系列



基本特性

- 52pin Mini PCIe package
- Dimension 51(L)*30(W)*4.5(H) mm
- Chipset ALT3100(BB)+ALT6200(RF)
- Charger DC Output voltage 3.135V~4.4V(3.3 V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- UART 300bps to 230400bps
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux

频段特性

1.4G 1447MHz~1467MHz
1.8G 1785MHz~1805MHz

理论速率/功率等级

- 理论速率
- LTE UL(50Mbps) DL(100Mbps)
- 功率等级
- TD-LTE +23dBm

标准规范

- TD-LTE /FDD-LTE Cat3
- 3GPP Release 8
- 3GPP TS 27.007 and 27.005 Notesinfo extended AT command
- IPV4/IPV6
- Embedded TCP/IP Stack

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

功能特性

- Sleep Current <20mA
- Standby Average Current <40mA
- Working Current <600mA
- Sleep Current (TBD)

认证

- RoHS/FCC Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

B51_2

B5x Mini PCIe package系列



基本特性

- 52pin Mini PCIe package
- Dimension 52(L)*30(W)*5.95(H) mm
- Chipset Leadcore 1761
- Charger DC Output voltage 3.135V~4.4V(3.3V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- UART 300bps to 230400bps
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux
- MTBF 80000h

频段特性

1.4G 1447MHz~1467MHz
1.8G 1785MHz~1805MHz

理论速率/功率等级

- 理论速率
- LTE UL(50Mbps) DL(150Mbps)
- 功率等级
- TD-LTE +23dBm

标准规范

- TD-LTE Cat4
- 3GPP Release 7
- 3GPP TS 27.007 and 27.005 Notesinfo extended AT command
- IPV4/IPV6
- Embedded TCP/IP Stack

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

功能特性

- Sleep Current <5mA
- Standby Average Current <20mA
- Working Current <500mA
- Sleep wake up Support

认证

- RoHS Compliant
- CTA(TBD)
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

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B7x系列工业级M2M LTE模块



频段特性

TDD-LTE

Band 38 2570MHz - 2620(MHz)
Band 39 1880MHz - 1920(MHz)
Band 40 2300MHz - 2400(MHz)

TD-SCDMA

Band 34 2010MHz - 2025(MHz)
Band 39 1880MHz - 1920(MHz)
GGE 850/900/1800/1900(MHz)

标准规范

- TD-LTE Cat4
- HSDPA Cat15 , HSUPA Cat6
- GSM R9
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- 遵循 ITU T Recommendation V.25ter 3GPP 27.005 3GPP 27.007 协议
- IPV4/IPV6
- Embedded TCP/IP Stack

功能特性

- Sleep Current <5mA
- Standby Average Current <20mA
- Working Current <500mA
- Sleep wake up Support

基本特性

- 42pin SMT 邮票接口
- Dimension 28*44*2.3mm
- Chipset Leadcore 1761
- Charger DC Output voltage 3.5V~4.2V
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux
- PCM voice
- SMS MD/MT PDU mode
- PS : LTE<->3G<->GGE支持自动重选及手动切换
- CS : 3G ->GGE支持自动重选及手动切换

理论速率

- LTE UL(50Mbps) DL(150Mbps)
- HSDPA/HSUPA UL(2.2Mbps) DL(2.8Mbps)
- EDGE UL/DL(236Kbps)
- GPRS UL/DL(85.6Kbps)

Transmit Power

- TD-LTE : +23dBm (3GPP Class3)
- TD-SCDMA : +24dBm (Power Class2)
- EDGE 1900/1800MHz : +26dBm (Power Class E2)
- EDGE 900/850MHz : +27dBm (Power Class E2)
- GPRS 1900/1800MHz : +30dBm (Power Class 1)
- GPRS 900/850MHz : +33dBm (Power Class 4)

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

认证

- CTA RoHS Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

B72/B75

B7x系列工业级M2M LTE模块



基本特性

- Dimension 36(L)*26(W)*2.5(H) mm
- Chipset ALT3100(BB)+ALT6200(RF)
- Charger DC Output voltage 3.3V~5.5V
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- Band Width 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20MHz
- USB 2.0 High speed
- UART 300bps to 230400bps
- USB driver for Linux/Android
- OS Android/Win7/xp/Linux

频段特性

TDD-LTE

1.4G	1447MHz - 1467MHz
1.8G	1785MHz - 1850MHz

FDD-LTE

	UL	DL
Band 3	1710 - 1788(MHz)	1805 - 1880(MHz)
Band 7	2500 - 2570(MHz)	2620 - 2690(MHz)
Band 20	832 - 862(MHz)	791 - 821(MHz)

标准规范

- TD-LTE /FDD-LTE Cat3
- 3GPP Release 8
- 3GPP TS 27.007 and 27.005 Notesinfo extended AT command
- IPV4/IPV6
- Embedded TCP/IP Stack

功能特性

- Sleep Current <5mA
- Standby Average Current <40mA
- Working Current <600mA
- Sleep wake up Support

理论速率/功率等级

理论速率

- LTE UL(50Mbps) DL(100Mbps)

功率等级

- TD-LTE +23dBm

特性环境

- Normal operation -20°C ~ +75°C
- Storage operation -40°C ~ +85°C
- Humidity 5%~95%

认证

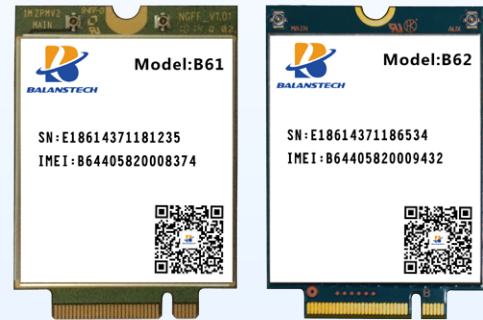
- CTA RoHS Compliant
- CE(TBD)
- ATT(TBD)
- REACH(TBD)

B61/B62

B6x系列 NGFF M.2 LTE模块

模块描述

上海亮衡发布的 B6x 系列是满足行业标准的 (NGFF M.2) 规格模块, 它继承了成熟的 4G 商用技术, 具有高集成度、单面布板及 2.3mm 超薄尺寸的特性 搭载强大的 ARM Cortex-R4*2 Cortex-A5*1 处理器以及完整的全球频段制式, 采用 MBIM 标准的软件接口实现即插即用, 是 PAD、笔记本厂商 4G 无线通信解决方案的理想选择。



频段特性

Band 1	1920MHz- 1980MHz(UL)/ 2110MHz - 2170MHz(DL)
Band 2	1850MHz- 1910MHz(UL)/ 1930MHz - 1990MHz(DL)
Band 3	1710MHz- 1788MHz(UL)/ 1805MHz - 1880MHz(DL)
Band 4	1710MHz- 1755MHz(UL)/ 2110MHz - 2155MHz(DL)
Band 5	824MHz- 849MHz(UL)/ 869MHz - 894MHz(DL)
Band 6	830MHz- 840MHz(UL)/ 875MHz - 885MHz(DL)
Band 7	2500MHz- 2570MHz(UL)/ 2620MHz - 2690MHz(DL)
Band 8	880MHz- 915MHz(UL)/ 925MHz - 960MHz(DL)
Band 9	1749.9MHz- 1784.9MHz(UL)/ 1844.9MHz - 1879.9MHz(DL)
Band 11	1427.9MHz- 1447.9MHz(UL)/ 1475.9MHz - 1495.9MHz(DL)
Band 12	699MHz- 716MHz(UL)/ 729MHz - 746MHz(DL)
Band 13	777MHz- 787MHz(UL)/ 746MHz - 756MHz(DL)
Band 17	704MHz- 716MHz(UL)/ 734MHz - 746MHz(DL)
Band 18	815MHz- 830MHz(UL)/ 860MHz - 875MHz(DL)
Band 19	830MHz- 845MHz(UL)/ 875MHz - 890MHz(DL)
Band 20	832MHz- 862MHz(UL)/ 791MHz - 821MHz(DL)
Band 21	1447.9MHz- 1462.9MHz(UL)/ 1495.9MHz - 1510.9MHz(DL)
Band 25	1850MHz- 1915MHz(UL)/ 1930MHz - 1995MHz(DL)
Band 26	814MHz- 849MHz(UL)/ 859MHz - 894MHz(DL)
Band 34	2010MHZ -2025MHZ
Band 38	2570MHz - 2620MHz
Band 39	1880MHz - 1920MHz
Band 40	2300MHz - 2400MHz
Band 41	2545MHz - 2575MHz

B61

FDD-LTE Band 1, 3, 7

TDD-LTE Band 38,39,40,41

TD-SCDMA 34,39

WCDMA 1,2,5,8

GSM/GPRS/EDGE Band 2,3,5,8

B62

FDD-LTE Band 1,2,3,4,5,6,7,8,9,11,
12,13,17,18,19,20,21,25,26,

TDD-LTE Band 38, AXGP(a sub-band
of 41 called AXGP)

HSPA/UMTS Band 1,2,4,5,6,8

GSM/GPRS/EDGE Band 2,3,5,8

B61/B62

B6x series industrial-grade NGFF M. 2 modules

理论速率

- **LTE**
 - Uplink up to 50Mbps,
 - Downlink up to 150Mbps
- **HSPA+**
 - Uplink up to 5.76 Mbps,
 - Downlink up to 42 Mbps
- **UMTS**
 - Uplink/Downlink up to 384Kbps
- **EDGE**
 - Uplink/Downlink up to 236Kbps
- **GPRS**
 - Uplink/Downlink up to 85.6Kbps

基本特性

- M.2(NGFF)(Type 3042)
- USB 2.0
- Hardware Platform Chipset MDM9225
- Charger DC Output voltage 3.135V~4.4V
(3.3 V recommended)
- USIM 1.8V or 3.0V USIM
- Antenna Interface MIMO2*2
- USB Driver for Microsoft Windows /XP/Vista
- USB Driver for Win7/Win8
- USB Driver for Linux 2.6/Android
- USB Driver for MAC
- RIL supporting for Android
- Automatic installation
- Linux API SDK
- Firmware update via USB
- IPV4/V6 Multi-PDP,MT PDP
- UDP/FTP/FTPS
- Source code of the PC manager of the device for reference

标准规范

- LTE-FDD/LTE-TDD /Rel-10 Cat4 including Carrier Aggregation
Advanced Diversity Receiver Type3i,
- HSPA+ Rel-10
 - GSM GSM R99,GPRS,EDGE
 - GNSS (A-GPS,A-Glonass,SUPL2),OTDOA
 - GPRS multi-slot class 12
 - EDGE multi-slot class 12
 - Control Via AT Commands
 - Band Width 20MHz

特定环境

Normal operation -20°C ~ +70°C
Storage operation -40°C ~ +80°C

机械尺寸

Dimension 42(L)*30(W)*2.3(H) mm

认证

- CE(TBD)
- ATT(TBD)
- ROHS(TBD)
- REACH(TBD)

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www.balanstech.com

B72/B75

B7x系列工业级M2M LTE模块



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