

# Fibocom

Perfect Wireless Experience  
完美无线体验

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产品选型手册 |


## Product Portfolio

无线通信模块及解决方案供应商 |

Wireless Module And Solution Provider

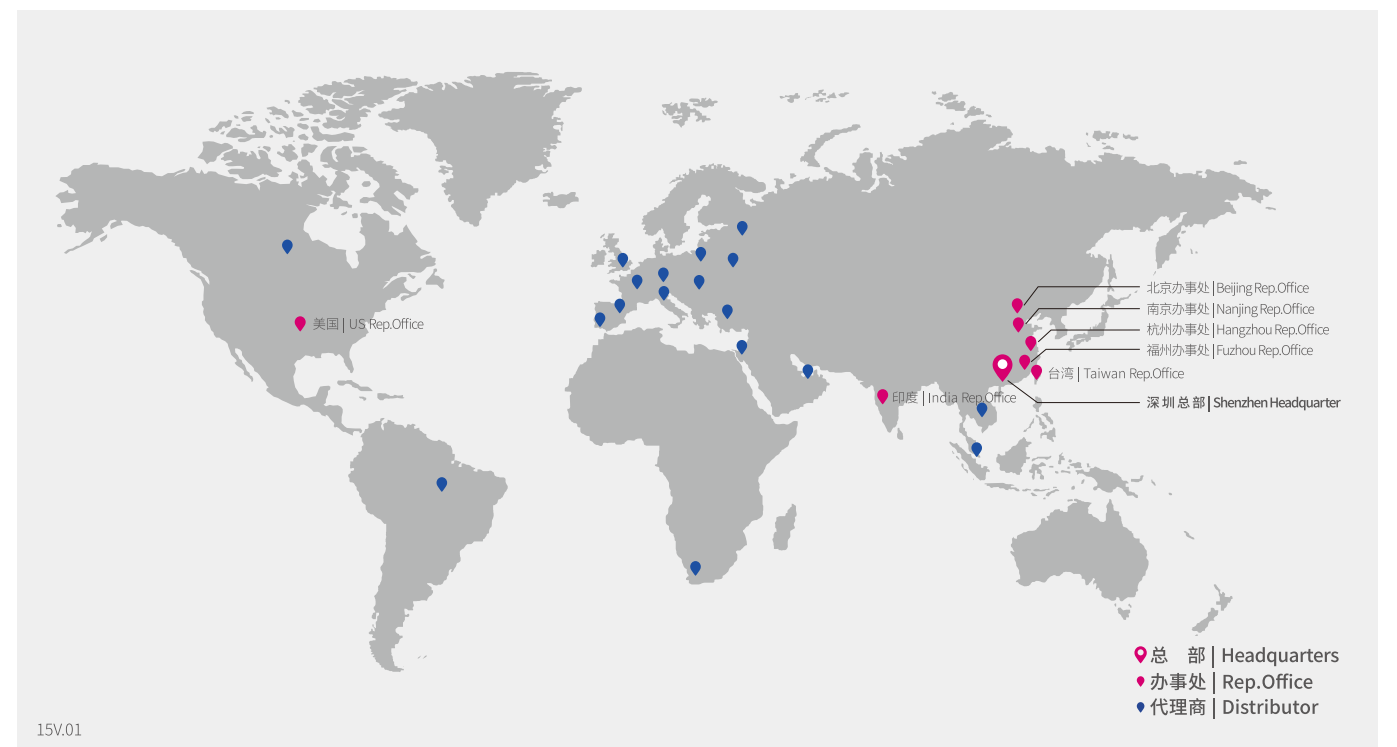
		GSM/GPRS Modules		WCDMA/HSPA+ Modules			
Series		G510	G610	H330S	H330S MiniPCIe	H350	H380
Picture							
<b>Basic Features</b>							
Packaging		LCC 42pin	LCC 55pin	LGA 120pin	MiniPCIe	LGA 110pin	M.2
Dimensions(mm)		20.2 x 22.2 x 2.5	31.3 x 20.2 x 3.0	33.8 x 27.8 x 2.45	50.95 x 30.0 x 3.45	29.8 x 17.8 x 2.0	42.0 x 22.0 x 2.35
Frequency Range	4G*						
	3G*			B1/B2/B5/B8; B1/B8	B1/B2/B5/B8; B1/B8	B1/B8 ; B2/B5; B2/B4/B5	B1/B2/B5/B8; B1/B8; B2/B5
	2G*	850/900/1800/1900MHz	850/900/1800/1900MHz	850/900/1800/1900MHz	850/900/1800/1900MHz	900/1800MHz ; 850/1900MHz	850/900/1800/1900MHz
Voltage	3.3V~4.5V	3.3V~4.5V	3.3V~4.2V	3.0V~3.6V	3.3V~4.5V	3.135V~4.4V	3.135V~4.4V
Temperature Range	-40°C~85°C	-40°C~85°C	-40°C ~ +85°C*	-30°C ~ +85°C	-30°C ~ +85°C	-30°C ~ +75°C	-30°C ~ +65°C
<b>Data Transmission</b>							
LTE	FDD(Mbps)						
	TDD(Mbps)						
UMTS/HSPA/HSPA+(Mbps)				21(DL) / 5.76(UL)	21(DL) / 5.76(UL)	21(DL) / 5.76(UL)	21(DL) / 5.76(UL)
EDGE(Kbps)				296(DL) / 236.8(UL)	296(DL) / 236.8(UL)	296(DL) / 236.8(UL)	296(DL) / 236.8(UL)
GPRS(Kbps)		85.6(DL) / 42.8(UL)	85.6(DL) / 42.8(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)
CSD				■	■	■	■
SMS		■	■	■	■	■	■
Network Protocols		TCP/UDP/PPP/NTP/SSL	TCP/UDP/PPP/NTP/SSL	TCP/UDP/PPP/SSL	TCP/UDP/PPP/SSL	TCP/UDP/PPP*/SSL	PPP
<b>Voice</b>							
Analog Audio		■	■	■	■		
Digital Audio			■	■		■	■
Voice Code		HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR
Audio Play/Record		■	■	■			
<b>Interfaces</b>							
SIM		x1,1.8V/3.0V	x1,1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V
USB				2.0 HS	2.0 HS	2.0 HS	2.0 HS
UART		2	2	2	2	2	
SPI			■*			■*	
TTS		■	■	■*	■*	■*	
ADC			■	■		■	
GPIO		■	■	■	■	■	■
<b>Special Features</b>							
Remote SIM		■	■	■	■	■*	
eCall		■	■	■*	■*	■*	
OpenCPU		■	■	■		■*	
MUX		■	■	■	■	■	■
Jamming Detection		■	■	■*	■*	■*	
USSD		■	■	■	■	■	■
STK		■*	■*	■	■	■	■
LBS		■	■	■	■	■*	
FOTA				■	■	■*	
OS Driver				Android/Linux/Win CE	Android/Linux/Win CE	Android/Linux/Win CE/ Win 8.1/Win 10	Android/Linux/Win CE/ Win 8.1/Win 10
GNSS							
MMS		■	■	■	■	■*	
<b>Approvals</b>							
Approvals		CCC/SRRC/NAL/RoHS/CE/ GCF/ANATEL	CCC/SRRC/NAL/RoHS/CE/ FCC/ANATEL/ICASA	CCC/RoHS/CE/GCF/FCC/PTCRB/ TELEC/RCM/ANATEL	CCC/RoHS/CE/GCF/FCC/PTCRB/ TELEC/RCM/ANATEL	CCC/SRRC/RoHS/CE/GCF/ FCC/PTCRB/NCC	CCC/SRRC/RoHS/CE/GCF/ FCC/PTCRB/NCC

		LTE Modules					
Series		L811-EA	L831-EA	L810	L810 MiniPCle	L830-GL	L830-EA
Picture							
<b>Basic Features</b>							
Packaging		LGA 144 pin	M.2	LGA 144 pin*	MiniPCle	M.2	M.2
Dimensions(mm)		32.0 x 26.0 x 2.0	42.0 x 30.0 x 2.3	32.0 x 26.0 x 2.0	50.95 x 30.0 x 3.0	42.0 x 30.0 x 2.3	42.0 x 30.0 x 2.3
Frequency Range	4G*	B1/B2/B3/B4/B5/B7/B8/B13/B17/B18/B19/B20	B1/B2/B3/B4/B5/B7/B8/B13/B17/B18/B19/B20	B1/B3/B5/B7/B8/B20/B38/B39/B40/B41	B1/B3/B5/B7/B8/B20/B38/B39/B40/B41	B1/B3/B5/B7/B8/B20/B38/B39/B40/B41	B1/B2/B3/B4/B5/B7/B8/B9/B13/B17/B18/B19/B20/B26/B29
	3G*	B1/B2/B4/B5/B8	B1/B2/B4/B5/B8	B1/B8/B34/B39	B1/B8/B34/B39	B1/B8/B34/B39	B1/B2/B4/B5/B6/B8
	2G*	850/900/1800/1900MHz	850/900/1800/1900MHz	900/1800MHz	900/1800MHz	900/1800MHz	850/900/1800/1900MHz
Voltage		3.3V-4.4V	3.135V-4.4V	3.3V-4.4V	3.0V-3.6V	3.135V-4.4V	3.135V-4.4V
Temperature Range		-40°C ~ +85°C	-30°C ~ +65°C	-40°C ~ +85°C	-30°C ~ +75°C	-30°C ~ +65°C	-30°C ~ +65°C
<b>Data Transmission</b>							
LTE	FDD(Mbps)	150(DL) ,50(UL)	150(DL) ,50(UL)	300(DL) / 50(UL)	300(DL) / 50(UL)	300(DL) / 50(UL)	300(DL) / 50(UL)
	TDD(Mbps)			112(DL) / 50 (UL)	112(DL) / 50 (UL)	112(DL) / 50 (UL)	
UMTS/HSPA/HSPA+(Mbps)		42(DL) / 5.76(UL)	42(DL) / 5.76(UL)	42(DL) / 5.76(UL)	42(DL) / 5.76(UL)	42(DL) / 5.76(UL)	42(DL) / 5.76(UL)
EDGE(Kbps)		296(DL) / 236.8(UL)	296(DL) / 236.8(UL)	296(DL) / 236.8(UL)	296(DL) / 236.8(UL)	296(DL) / 236.8(UL)	296(DL) / 236.8(UL)
GPRS(Kbps)		107(DL) / 85.6(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)	107(DL) / 85.6(UL)
CSD		■	■	■	■	■	■
SMS		■	■	■	■	■	■
Network Protocols		PPP	PPP	TCP*/UDP*/PPP	PPP	PPP	PPP
<b>Voice</b>							
Analog Audio							
Digital Audio		■	■	■	■	■	
Voice Code		HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR,FR,EFR,AMR	
Audio Play/Record		■*					
<b>Interfaces</b>							
SIM		x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V
USB		2.0HS	2.0HS	2.0HS/SSIC	2.0HS	2.0HS/SSIC	2.0HS/SSIC
UART		1		1	1		
SPI							
TTS							
ADC		■					
GPIO		■	■	■	■	■	■
<b>Special Features</b>							
Remote SIM		■*		■*	■*		
eCall				■*	■*		
OpenCPU							
MUX				■	■	■	■
Jamming Detection							
USSD		■	■	■	■	■	■
STK		■	■	■	■	■	■
LBS							
FOTA		■*		■*	■*	■*	
OS Driver		Android/Linux/Win 8.1/Win 10	Android/Linux/Win 7/Win 8.1/Win 10	Linux/Android/Win 8.1/Win 10	Linux/Android/Win 8.1/Win 10	Linux/Android/Win 7/Win 8.1/Win 10	Linux/Android/Win 7/Win 8.1/Win 10
GNSS			■				■
MMS							
<b>Approvals</b>							
Approvals		RoHS/CE/GCF/FCC/PTCRB	RoHS/CE/FCC/GCF/PTCRB	CCC/SRRC/NAL/RoHS/CE	CCC/SRRC/NAL/RoHS/CE	CCC/RoHS/CE	RoHS/CE*/GCF*/FCC*/PTCRB*/NCC*

GPS	
<b>Series</b>	<b>GTS-4E</b>
<b>Picture</b>	
<b>Basic Features</b>	
Chip	SIRF IV
Dimension(mm)	16.0 x 12.2 x 2.6
Weight	≤1g
Packaging	LCC
UART	1
Average Current(mA)	33mA
Voltage	2.7~5.5V
Operating Temp Range	-40°C ~ +85°C
<b>Velocity Accuracy</b>	
Speed	<0.1 m/s
Heading	<0.5°
Horizontal Positioning	<2.5 m/s
<b>TTF</b>	
Hot Start	<1 s
Warm Start	<35 s
Cold Start	<35 s
<b>Sensitivity</b>	
Acquisition	-147 dBm
Tracking	-161 dBm
Navigation	-161 dBm
<b>Receiver</b>	
Tracking	L1,CA code
Channels	48
Max Update Rate	1Hz
Max Velocity	<1000 knots
Receive Type	48 channel,L1 Frequency,C/A Code

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Fibocom Wireless Inc. is a global leading M2M and CE telecommunication provider dedicated to design and manufacture wireless module and provide IoT solutions, which enable secure communications among machines, equipment, vehicles and assets over wireless networks. Our product covers GSM/GPRS modules, HSPA+ modules, LTE modules and GNSS modules. Fibocom is well known for providing TCU, Smart POS and Smart Device which are based on Intel X86 platform. As an Intel invested company, Fibocom boasts a comprehensive innovation driven portfolio in IoT industry.



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