



GSM, UMTS modules



SARA series
GSM/GPRS modules
UMTS/HSPA/GPRS modules
16.0 x 26.0 x 3.0 mm



LEON-G1 series
GSM/GPRS modules
18.9 x 29.5 x 3.0 mm



LISA-U2 series
UMTS/HSPA(+) modules
22.4 x 33.2 x 2.6 mm

Model	Bands					Interfaces				Audio		Functions														
	GSM/GPRS	UMTS/HSPA	CDMA	LTE	Band data rates	UART	SPI	USB	GPIO	Analog audio	Digital audio	Network indication	Antenna supervisor	Jamming detection	Embedded TCP, UDP/IP	Embedded FTP/HTTP	Embedded SSL	Embedded AssistNow	CellLocate	FOTA	Firmware update via serial	eCall / ERA-GLONASS	Rx diversity	Dual stack IPv4 / IPv6	GNSS via modem	
GSM/GPRS modules																										
SARA-G300	D1					2																				
SARA-G310	Q					2																				
SARA-G340	D1					2		4		1	1	•	•	•	•	•	•	•	•			•	•			•
SARA-G350	Q					2		4		1	1	•	•	•	•	•	•	•	•		F	•	•			•
SARA-G350 ATEX	Q					2		4		1	1	•	•	•	•	•	•	•	•			•	•			•
LEON-G100	Q					1		4		2	1	•	•	•	•	•	•	•	•			•	•			•
UMTS/HSPA modules																										
LISA-U200 (J,K)	Q	800/850/900 1700/1900/2100			L	1	1	1	14		2	•	•	•	•	•	•	•	•		F	•	•			
LISA-U230	Q	800/850/900 1700/1900/2100			M	1	1	1	14		2	•	•	•	•	•	•	•	•			•	•	•		•
LISA-U260	Q	850/1900			L	1	1	1	14		2	•	•	•	•	•	•	•	•			•	•			
LISA-U270 (J)	Q	900/2100			L	1	1	1	14		2	•	•	•	•	•	•	•	•			•	•			
SARA-U260	D2	850/1900			L	1		1	8		1	•	•	•	•	•	•	•	•			•	•			
SARA-U270	D1	900/2100			L	1		1	8		1	•	•	•	•	•	•	•	•			•	•			
SARA-U280		850/1900			L	1		1	8		1	•	•	•	•	•	•	•	•			•	•			
SARA-U290		900/2100			L	1		1	8		1	•	•	•	•	•	•	•	•			•	•			

D1 = Dual-band 900/1800 MHz
D2 = Dual-band 850/1900 MHz

Q = Quad-band
J = Version for Japan available (DoCoMo, Softbank)

K = Version for Korea available (SKT)
L = HSPA (7.2 MB/s down, 5.76 Mb/s up)

M = HSPA+ (21.1 MB/s down, 5.76 Mb/s up)
F = FOTA version available



LTE, CDMA modules



TOBY-L series
LTE LGA modules
24.8 x 35.6 x 2.6 mm



MPCI-L series
LTE Mini PCIe modules
30 x 51 x 3.5 mm



LISA-C2 series
Dual-band CDMA2000 1xRTT
22.4 x 33.2 x 2.7 mm



FW2770 series
CDMA2000 1xRTT/
EV-DO mini PCI
30 x 51 x 4.5 mm

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	GSM/GPRS	UMTS/HSPA	CDMA	LTE	Band data rates	UART	SPI	USB	GPIO	Analog audio	Digital audio	Network indication	Antenna supervisor	Jamming detection	Embedded TCP, UDP/IP	Embedded FTP/HTTP	Embedded SSL	Embedded AssistNow	CellLocate	FOTA	Firmware update via serial	eCall / ERA-GLONASS	Rx diversity	Dual stack IPv4 / IPv6	MIMO 2x2	GNSS via modem		
LTE modules																												
TOBY-L100				4,13	T1		1	6																				
TOBY-L200	Q	1, 2, 4, 5, 8		2,4,5,7,17	T2	1	1	1	10	1		•	•	•	•	•	•	•	•			•	•	•	•	•	•	•
TOBY-L210	Q	1, 2, 5, 8		1,3,5,7,8,20	T2	1	1	1	10	1		•	•	•	•	•	•	•	•			•	•	•	•	•	•	•
MPCI-L100				4,13	T1			1														•		•	•	•		
MPCI-L200	Q	1, 2, 4, 5, 8		2,4,5,7,17	T2			1				•	•	•	•	•	•	•	•			•		•	•	•		
MPCI-L210	Q	1, 2, 5, 8		1,3,5,7,8,20	T2			1				•	•	•	•	•	•	•	•			•		•	•	•		
CDMA modules																												
LISA-C200			800/1900		R	1	1	5		1	1		•		•		A		S	U								A
FW2770 (PCI-D100)			800/1900		E			1				•		•						S			•					
FW2770 (PCI-D101)			800/1900		E			1				•		•						S			•					

T1 = LTE Cat.3 (100 MB/s down, 50 Mb/s up)
T2 = LTE Cat.4 (150 MB/s down, 50 Mb/s up)

Q = Quad-band
R = 1xRTT (153 kb/s down and up)

E = EV-DO (3.1 MB/s down, 1.8 MB/s up)
A = Available from versions 03S/23S onwards

U = via USB only
S = Sprint version only