LTE Cat M1 and NB1 modules　C

SARA-N2 series
NB-IoT modules
16.0 x 26.0 x 2.4 mm

SARA-R4 series
LTE modules
16.0 x 26.0 x 2.5 mm

Model	Region	EGPRS bands	LTE bands	Band data rates	GNSS receiver	GNSS via Modem	AssistNow Software	CellLocate®	UART	USB	HSIC	DDC (I²C)	SPI	SDIO (Master)	GPIO	Digital audio	VoLTE	Antenna supervisor	Jamming detection	Embedded UDP	Embedded TCP/UDP	Embedded FTP/HTTP	Embedded TLS 1.2	Power Save Mode Rel.12	eDRX	Deep sleep mode	CoAP	FW update via serial	FOTA	Dual stack IPv4/IPv6	Standard	Professional	Automotive
LTE Cat NB1 (NB-IoT) modules																																	
SARA-N200	Europe / APAC		8	NB					2											•				•	•	•	•	•	•			•	
SARA-N201	APAC		5	NB					2											•				•	•	•	•	•	•			•	
SARA-N210	Europe		20	NB					2											•				•	•	•	•	•	•			•	
SARA-N211	Europe		8, 20	NB					2											•				•	•	•	•	•	•			•	
SARA-N280	S. America / APAC		28	NB					2											•				•	•	•	•	•	•			•	
SARA-N410-02B	USA		2,4,5,12	NB	•	•		□	1	1		•	□	□	6			•	□	•	•	•	•	•	•	•	•	□	•	•		•	
LTE Cat M1 modules																																	
SARA-R404M-00B	USA		13	M1					1	1					6			•		•	•	•	•	•	•	•	•	•	•	•		•	
SARA-R410M-01B	N. America		2,4,5,12	M1	□	□	□	□	1	1		□	□	□	6	□	□	•	•	•	•	•	•	•	•	•	•	□	•	•		•	
SARA-R410M-02B	Global		·	M1/NB	•	•		□	1	1		•	□	□	6	□	□	•	•	•	•	•	•	•	•	•	•	□	•	•		•	
SARA-R412M-02B	Global	Q	·	M1/NB	•	•		□	1	1		•	□	□	6	□	□	•	□	•	•	•	•	•	•	•	•	□	•	•		•	

Q = Quad-band

* = Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28 (and band 39 in M1-only)

NB = Cat NB1 (27.2 kb/s DL, 62.5 kb/s UL)
M1 = LTE Cat M1 (375 kb/s DL & UL)

□ = Available in future firmware

LTE Cat 1 and RPMA modules C

u-blox

LARA-R2, LARA-R3 series
LTE Cat 1 modules
24.0 x 26.0 x 2.6 mm

TOBY-R2 series
LTE Cat 1 modules
24.8 x 35.6 x 2.6 mm

SARA-S200
RPMA module
16.0 x 26.0 x 2.6 mm

NANO-S100
RPMA module
22.9 x 33.0 x 3.9 mm

Model	Region	Access Technology					Positioning				Interfaces							Audio	Features															Grade		
		GSM/GPRS bands	UMTS/HSPA [MHz]	LTE bands	RPMA [GHz]	Band data rates	GNSS receiver	GNSS via Modem	AssistNow Software	CellLocate®	UART	USB	HSIC	DDC (I²C)	7-wire SPI	SDIO (Master)	GPIO	Digital audio	VoLTE	Antenna supervisor	Jamming detection	Secure boot	Embedded TCP/UDP	Embedded FTP/HTTP	Embedded TLS 1.2	Power Save Mode Rel.12	FW update via serial	FOTA	LWM2M client	Full hand-over	Global roaming	Rx diversity	Dual stack IPv4/IPv6	Standard	Professional	Automotive
LTE Cat 1 modules																																				
LARA-R3121	Europe			3,7,20		C1	•	•	•	•	1	1	1	1		1	10			•	•	•	•	•	•	•	•	•	□			•	•			•
LARA-R202	N. America: AT&T, T-Mobile		850,1900	2,4,5,12		C1	•	•	•	•	1	1	1	1		1	9	1	•	•	□	□	•	•	•	•	•	•	□			•	•			•
LARA-R203	N. America: AT&T, T-Mobile			2, 4,12		C1	•	•	•	•	1	1	1	1		1	9	1	•	•	□	□	•	•	•	•	•	•	□			•	•			•
LARA-R204	N. America: VZW			4,13		C1	□	□	□	□	1	1	1	1		1	9	1	□	•	□	□	•	•	•	•	•	•	□			•	•			•
LARA-R211	Europe	D1		3,7,20		C1	•	•	•	•	1	1	1	1		1	9	1	•	•	□	□	•	•	•	•	•	•	□			•	•			•
LARA-R220	Japan: NTT docomo			1,19		C1	•	•	•	•	1	1	1	1		1	9	1	□	•	□	□	•	•	•	•	•	•	□			•	•			•
LARA-R280	APAC		2100	3,8,28		C1	•	•	•	•	1	1	1	1		1	9	1	C	•	□	□	•	•	•	•	•	•	□			•	•			•
TOBY-R200	N. America: AT&T, T-Mobile	Q	850,900, 1900,2100	2,4,5,12		C1	•	•	•	•	1	1				1	9	1	•	•	□		•	•	•	•	•	•				•	•			•
TOBY-R202	N. America: AT&T, T-Mobile, U.S. Cellular		850,1900	2,4,5,12		C1	•	•	•	•	1	1				1	9	1	•	•	□		•	•	•	•	•	•				•	•			•
RPMA modules																																				
SARA-S200	Global				2.4	P			•																				•	•	•			•		
NANO-S100	Global				2.4	P			•																				•	•	•				•	

D1 = Dual-band 900/1800 MHz
Q = Quad-band

C1 = LTE Cat 1 (10 Mb/s DL, 5 Mb/s UL)

P = Power Optimized: up to 100 kB per day

C = CSFB only

□ = Available in future firmware

UBX-13004714 - R15

GSM and UMTS modules C

SARA-G3, SARA-U2
GSM/GPRS and UMTS/HSPA modules
16.0 x 26.0 x 3.0 mm
(2.4 mm for SARA-G3 version 02)

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

Model	ATEX variants available	Region	GSM/GPRS bands	UMTS/HSPA [MHz]	Band data rates	GNSS via Modem	AssistNow Software	CellLocate®	eCall / ERA GLONASS	UART	USB	SPI	GPIO	DDC for u-blox GNSS	Analog audio	Digital audio	Antenna supervisor	Jamming detection	Embedded TCP/UDP	Embedded FTP/HTTP	Embedded SSL	FW update via serial	FOTA	Rx diversity	Dual stack IPv4/IPv6	Standard	Professional	Automotive
GSM/GPRS modules																												
SARA-G300		Europe / APAC	D1		L					2												•					•	
SARA-G310		Global	Q		L					2												•					•	
SARA-G340	•	Europe / APAC	D1		L	•	•	•	•	2			4	1	1	1	•	•	•	•	•	•			•		•	
SARA-G350	•	Global	Q		L	•	•	•	•	2			4	1	1	1	•	•	•	•	•	•			•		•	•
UMTS/HSPA(+) modules																												
SARA-U201	•	Global	Q	800,850,900,1900,2100	M	•	•	•	•	2#	1		9	1	1		•	•	•	•	•	•	#		•		•	•
SARA-U260		N. & S. America	D2	850,1900	M	•	•	•		1	1		9	1	1		•	•	•	•	•	•			•			•
SARA-U270	•	Europe / APAC	D1	900,2100	M	•	•	•	•	1	1		9	1	1		•	•	•	•	•	•			•		•	
SARA-U280		N. & S. America		850,1900	M	•	•	•		1	1		9	1	1		•	•	•	•	•	•			•		•	
LISA-U200		Global	Q	800,850,900,1700,1900,2100	M	•	•	•	•	1	1	1	14	1	2		•	•	•	•	•	•	F		•		•	
LISA-U201		Global	Q	800,850,900,1900,2100	M	•	•	•	•	1	1	1	14	1	2		•	•	•	•	•	•	F		•		•	•
LISA-U230		Global	Q	800,850,900,1700,1900,2100	+	•	•	•	•	1	1	1	14	1	2		•	•	•	•	•	•		•	•		•	
LISA-U260		N. & S. America	Q	850,1900	M	•	•	•		1	1	1	14	1	2		•	•	•	•	•	•			•		•	
LISA-U270		Europe / APAC	Q	900,2100	M	•	•	•	•	1	1	1	14	1	2		•	•	•	•	•	•			•		•	

D1 = Dual-band 900/1800 MHz   Q = Quad-band   L = GPRS (85.6 kb/s)   M = 7.2 / 5.76 Mb/s down/up   F = FOTA version available   # = Available in the latest firmware (not supported in "x3" product versions)
D2 = Dual-band 850/1900 MHz   + = 21.1 / 5.76 Mb/s down/up

u-blox

TOBY-L2, TOBY-L4 series
LTE LGA modules
24.8 x 35.6 x 2.6 mm

MPCI-L2 series
LTE Mini PCIe modules
30.0 x 51.0 x 3.7 mm

Model	Region	Access Technology					Positioning			Interfaces						Audio		Features											Grade		
		GSM/GPRS bands	UMTS/HSPA [MHz]	LTE FDD Bands	LTE TDD Bands	Band data rates	GNSS via Modem	AssistNow Software	CellLocate®	UART	USB	DDC (I²C)	SDIO (Master)	RGMII/RMII	GPIO	Analog audio	Digital audio	Network indication	Antenna supervisor	Jamming detection	Embedded TCP/UDP	Embedded FTP/HTTP	Embedded TLS 1.2	FW update via serial	FOTA	Rx diversity	Dual stack IPv4/IPv6	MIMO 2x2	Standard	Professional	Automotive
LTE Cat 6 modules																															
TOBY-L4006-00	N. America	D2	850,1700,1900	2,4,5,7,12,13,17,29		C6	•	□	□	4	1*	2	2	1	14	1	1	•	•	•	•	•	•	•	•	•	•	•			•
TOBY-L4106-00	EMEA	D1	900,2100	1, 3, 7, 8, 20	38	C6	•	□	□	4	1*	2	2	1	14	1	1	•	•	•	•	•	•	•	•	•	•	•			•
TOBY-L4206-00	APAC / Brazil	Q	850,900,2100	1,3,5,7,8,9,19,28		C6	•	□	□	4	1*	2	2	1	14	1	1	•	•	•	•	•	•	•	•	•	•	•			•
TOBY-L4906-00	China	D1	900,2100	1, 3	39,40,41	C6	•	□	□	4	1*	2	2	1	14	1	1	•	•	•	•	•	•	•	•	•	•	•			•
TOBY-L4006-50	N. America	D2	850,1700,1900	2,4,5,7,12,13,17,29		C6	□	□	□		1	1		□	9	1	1	•	•	•	□	□	□	•	•	•	•	•		•	•
TOBY-L4106-50	EMEA	D1	900,2100	1, 3, 7, 8, 20	38	C6	□	□	□		1	1		□	9	1	1	•	•	•	□	□	□	•	•	•	•	•		•	•
TOBY-L4206-50	APAC / Brazil	Q	850,900,2100	1,3,5,7,8,9,19,28		C6	□	□	□		1	1		□	9	1	1	•	•	•	□	□	□	•	•	•	•	•		•	•
TOBY-L4906-50	China	D1	900,2100	1, 3	39,40,41	C6	□	□	□		1	□		□	9	1	1	•	•	•	□	□	□	•	•	•	•	•		•	•
LTE Cat 4 modules																															
TOBY-L200	N. America	Q	850,900,1700,1900,2100	2,4,5,7,17		C4				1	1	1	1		14	1		•	•		•	•	•	•	•	•	•				•
TOBY-L201	N. America		850,1900	2,4,5,13,17		C4				1	1		1		14			•	•		•	•	•	•	•	•	•				•
TOBY-L210	Europe / APAC	Q	850,900,1900,2100	1,3,5,7,8,20		C4				1	1	1	1		14	1		•	•		•	•	•	•	•	•	•			•	•
TOBY-L220	Japan		850,900,2100	1,3,5,8,19		C4				1	1	1	1		14	1		•	•		•	•	•	•	•	•	•				•
TOBY-L280	S. America/APAC	Q	850,900,1900,2100	1,3,5,7,8,28		C4				1	1	1	1		14	1		•	•		•	•	•	•	•	•	•				•
MPCI-L200	N. America	Q	850,900,1700,1900,2100	2,4,5,7,17		C4				1											•	•	•	•	•	•	•				•
MPCI-L201	N. America		850,1900	2,4,5,13,17		C4				1											•	•	•	•	•	•	•				•
MPCI-L210	Europe / APAC	Q	850,900,1900,2100	1,3,5,7,8,20		C4				1											•	•	•	•	•	•	•				•
MPCI-L220	Japan		850,900,2100	1,3,5,8,19		C4				1											•	•	•	•	•	•	•				•
MPCI-L280	S. America/APAC	Q	850,900,1900,2100	1,3,5,7,8,28		C4				1											•	•	•	•	•	•	•				•

Q = Quad-band

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

C4 = LTE Cat 4 (150 Mb/s download, 50 Mb/s upload)
C6 = LTE Cat 6 (300 Mb/s download, 50 Mb/s upload)

□ = Available in future firmware
* = USB used for tracing and firmware update