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Category Wireless LSI

ICs

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Wireless LSIs

Sub-GHz LSIs 

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Sub-GHz LSIs

(LAPIS Technology products)

Sub-GHz LSIs											
Part No.	Support Standard	Frequency Band	Tx Power (dBm)	Max. Data Rate (kbps)	Modulation Method	RF Function	Communication Mode	CPU core	Memory resources	Operating Temperature (°C)	Package
ML7386	ARIB STD-T67 RCR STD-30	400 (426)	10	7.2	2-FSK*1	-	DIO (Tx only)	-	-	-25 to +85	P-WQFN28 -0404-0.40-63
ML7386B			1/10		2-FSK MSK						P-WQFN28 -0404-0.40-63
ML7396D	ARIB STD-T108 EN300-220 IEEE802.15.4g	920 (900 to 960)	1/10/13	400	2-FSK	Antenna Diversity FEC (IEEE802.15.4g)	Packet (SPI), DIO	-	-	-40 to +85	P-WQFN40 -0606-0.50-63
ML7344J	ARIB STD-T67 RCR STD-30	160, 400 (160 to 510)	1/10/13	15	2-FSK	Antenna Diversity		-	-	P-WQFN32 -0505-0.50-A63	
ML7406	EN300-220 EN1357-4: 2011 IEEE802.15.4g	860, 920 (750 to 960)	1/10/13	500	2-FSK	Antenna Diversity		-	-	P-WQFN32 -0505-0.50-A63	
ML7345	ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220	160, 400, 860, 920 (160 to 960)	1/10/13	100	2-FSK 4-FSK	Antenna Diversity		-	-	P-WQFN32 -0505-0.50-A63	
ML7345D	EN13757-4: 2013 IEEE802.15.4g	400, 860, 920 (315 to 960)	1/10/13	100		Antenna Diversity		-	-	P-WQFN32 -0505-0.50-A63	
ML7404	Sigfox ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4k IEEE802.15.4g	400, 860, 920 (315 to 960)	1/10/13	100 (FSK) 25 (DSSS)	2-FSK 4-FSK BPSK (DSSS)	Antenna Diversity FEC (IEEE802.15.4k)		-	-	P-WQFN32 -0505-0.50-A63	
New ML7425	Sigfox ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4g/15.4aa	160, 400, 860, 920 (145 to 1020)	1/10/13	1200	2-FSK 4-FSK BPSK (TX only)	Antenna Diversity	-	-	-40 to +105	P-WQFN32 -0505-0.50-A63	

Sub-GHz SoCs											
Part No.	Support Standard	Frequency Band	Tx Power (dBm)	Max. Data Rate (kbps)	Modulation Method	RF Function	Communication Mode	CPU core	Memory resources	Operating Temperature (°C)	Package
ML7416N	ARIB STD-T108 IEEE802.15.4g	920 (750 to 960)	1/10/13	400	2-FSK	Antenna Diversity FEC (IEEE802.15.4g)	Packet (SPI), DIO	Cortex®-M0+ (to 40MHz)	FLASH512KB, RAM64KB	-40 to +85	P-LFBGA81 -1010-1.00-1-MC
ML7436N	ARIB STD-T66 ARIB STD-T67 ARIB STD-T108 EN300-220 FCC part15 IEEE802.15.4g	400, 860, 920, 2400 (400 to 960, 2400)	1/10/13	300	2-FSK 4-FSK	Antenna Diversity FEC (IEEE802.15.4g)		Cortex®-M3 (to 81MHz)	FLASH1024KB, RAM256KB	P-TQFP48 -0707-0.50-Z9K6-MC	
ML7456N	Sigfox ARIB STD-T108 EN300-220 EN13757-4: 2013 IEEE802.15.4g	860, 920 (315 to 960)	1/10/13	100	2-FSK 4-FSK BPSK (TX only)	Antenna Diversity FEC (IEEE802.15.4g)		nX-U16 (to 24MHz)	FLASH64KB, RAM8KB	P-WQFN48 -0606-0.40-T63-MC	

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*1 No Gaussian filter.

RFID LSIs

(LAPIS Technology products)

Sensor LSIs												
Part No.	Support Standard	Frequency Band (MHz)	Passive Sensitivity (dBm)	Sensor	Measurement Range (pF)	Accuracy	Resolution (pF)	Sensor control (EPC command)	Memory (bit)	Operating Temperature (°C)	I/F	Package
☆MR7930	ISO/IEC 18000-63 EPC Gen2*1	860 to 960	READ: -9.5 WRITE: -8.5 SENSOR: -8.5	Capacitive	Low Range: 5 to 25 High Range: 15 to 100	±5%	Low Range: 0.01 High Range: 0.02 to 0.20	READ, WRITE (mandatory)	EPC: 96 USER: 144	-40 to +65	-	Au bump Wafer
New MR793200											SPI Slave	P-WQFN24 -0404-0.50-A63

*1 EPC Gen2 means EPCglobal Class1 Generation2. EPC means Electric Product Code.

☆: Under Development