

	Connectivity Module																							
	SIGFOX																							
Product	SN10-11	SN10-13	SN10-12		SN10-21	SN10-23	SN10-22		SN10-31	SN10-33	SN10-32		SN10-41	SN10-43	SN10-42		SN10-51	SN10-53	SN10-52		SN10-61	SN10-63	SN10-62	
Photo																								
Description	Sigfox only module		Sigfox only module		Sigfox combo module with WiFi, BLE, GPS and ARM Cortex M3 host MCU		Sigfox combo module with WiFi, BLE, GPS and ARM Cortex M3 host MCU		Sigfox combo module with WiFi, BLE and ARM Cortex M3 host MCU		Sigfox combo module with WiFi, BLE and ARM Cortex M3 host MCU		Sigfox combo module with WiFi and ARM Cortex M3 host MCU		Sigfox combo module with WiFi and ARM Cortex M3 host MCU		Sigfox combo module with BLE and ARM Cortex M3 host MCU		Sigfox combo module with BLE and ARM Cortex M3 host MCU		Sigfox combo module with GPS and ARM Cortex M3 host MCU		Sigfox combo module with GPS and ARM Cortex M3 host MCU	
Configuration	RC21	RC23	RC22	RC24	RC21	RC23	RC22	RC24	RC21	RC23	RC22	RC24	RC21	RC23	RC22	RC24	RC21	RC23	RC22	RC24	RC21	RC23	RC22	RC24
Core	NXP OL2385		NXP OL2385		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640		NXP OL2385 + TI CC2640	
Frequency	868MHz		923MHz		868MHz		923MHz		902MHz		920MHz		868MHz		923MHz		902MHz		920MHz		868MHz		923MHz	
Size (mm)	15 x 15 x 2.8		21.5 x 15 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8		27 x 27 x 2.8	
Wireless																								
-WiFi					WiFi b/g/n		WiFi b/g/n		WiFi b/g/n		WiFi b/g/n		WiFi b/g/n		WiFi b/g/n									
-BLE					Bluetooth® 5.0 compatible		Bluetooth® 5.0 compatible		Bluetooth® 5.0 compatible		Bluetooth® 5.0 compatible						Bluetooth® 5.0 compatible		Bluetooth® 5.0 compatible					
-GPS					Support multi-GNSS (GPS + QZSS)		Support multi-GNSS (GPS + QZSS)														Support multi-GNSS (GPS + QZSS)		Support multi-GNSS (GPS + QZSS)	
Memory	32kB EROM		32kB EROM		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash		128kB in system programmable flash	
	7kB RAM		7kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM		20kB RAM	
Interface					8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache		8kB SRAM for cache	
UART					v		v		v		v		v		v		v		v		v		v	
SPI	v		v						v		v		v		v		v		v		v		v	
I2C					v		v		v		v		v		v		v		v		v		v	
GPIO					v		v		v		v		v		v		v		v		v		v	
Output Power	14dBm	13dBm	22dBm		14dBm	13dBm	22dBm		14dBm	13dBm	22dBm		14dBm	13dBm	22dBm		14dBm	13dBm	22dBm		14dBm	13dBm	22dBm	
Receiver sensitivity (dBm)	-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK		-125dBm @600bps 2GFSK	
Software	Pre-flashed Sigfox software stack		Pre-flashed Sigfox software stack		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code		SDK & sample code	
Others					Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor		Accelerator sensor	
Approval	Sigfox P1 CE	Sigfox P1 MIC	Sigfox P1 FCC AU/NZ Anatel (On-going)		Sigfox P1 (On-going) CE (on-going)	Sigfox P1 (On-going) MIC (on-going)	Sigfox P1 (on-going) FCC (on-going) Anatel (On-going)		Sigfox P1 (On-going) CE (on-going)	Sigfox P1 (On-going) MIC (on-going)	Sigfox P1 (on-going) FCC (on-going) Anatel (On-going)		Sigfox P1 (On-going) CE (on-going)	Sigfox P1 (On-going) MIC (on-going)	Sigfox P1 (on-going) FCC (on-going) Anatel (On-going)		Sigfox P1 (On-going) CE (on-going)	Sigfox P1 (On-going) MIC (on-going)	Sigfox P1 (on-going) FCC (on-going) Anatel (On-going)		Sigfox P1 (On-going) CE (on-going)	Sigfox P1 (On-going) MIC (on-going)	Sigfox P1 (on-going) FCC (on-going) Anatel (On-going)	
Power supply	1.9 ~ 3.6 VDC		3.3 ~3.6 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC		3.3 ~ 4.5 VDC	
Operating Temp.	-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C		-40° ~ +85°C	

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