
















A photograph of an industrial IoT device, possibly a gas detector, with a grey metal casing and a black vented front panel. A green printed circuit board (PCB) is shown in a semi-transparent, floating position in front of the device. The PCB features two Telit modules: a white SIM card labeled '910' and a larger module labeled 'NE 50 GAS' and 'Telit'. Three yellow circular icons with a plus sign are connected to the text 'CONNECT', 'MANAGE', and 'INTEGRATE' by thin yellow lines. The background shows a blurred industrial building with a chimney under a grey sky.

CONNECT
MANAGE
INTEGRATE

IoT PRODUCT SELECTION GUIDE



TECHNOLOGY		PRODUCT			POWER SUPPLY					ENVIRONMENTAL				POSITIONING							SENSITIVITY			INTERFACES														
RADIO TECHNOLOGY	FORM FACTOR	GNSS MODULES GPS MODULES	Picture - Back side	Chip Solution	Supply range (Volt)	Acquisition Mode (mW)	Navigation Mode (mW)	Low Power Navigation Mode (mW)	Hibernate mode (µW)	Size (mm)	Surface mounting	Pin, Balls, Pads	Antenna connector	Temperature Range	GPS	QZSS	Glonass	Galileo (Ready)	Beidou	SBAS	RTCM	A-GPS	Jammer Rejection	Flash Memory (For full FW upgrades)	Patch and AGPS Storage Memory	Dead Reckoning Timing	Acquisition (dBm)	Navigation (dBm)	Tracking (dBm)	UART	USB	SPI	I2C	CAN Bus	GPIO	R&TTE and CE		
GPS	SMD														JUPITER SE880		SiRF 4	1.75 - 1.90	82	63	18	25	4.7 x 4.7 x 1.4	•	32		•	•				•			•			
		JUPITER JF2		SiRF 4	1.75 - 1.90	82	63	18	25	11 x 11 x 2.4	•	32			•	•				•			•	•	•	•		-147	-160	-163	•		•	•	•	•		
		JUPITER JN3		SiRF 4	2.85 - 3.60	151	105	-	120	16 x 12.2 x 2.4	•	24				•	•				•			•	•	•	•		-147	-160	-163	•					•	
		JUPITER SE868-AS		MT3337	2.80 - 4.30	54	54	15	20	11 x 11 x 6.1	•	32				•	•				•			•	•	•	•		-148	-163	-165	•					•	
		JUPITER SL869 V2S		MT3337	3.00 - 3.60	81	79	15	20	16 x 12.2 x 2.4	•	24				•	•				•			•	•	•	•		-148	-163	-165	•					•	
		JUPITER SL871-S		MT3337	2.80 - 4.30	51	43	15	20	10.1 x 9.7 x 2.4	•	18				•	•				•			•	•	•	•		-148	-163	-165	•					•	
GNSS	Embedded	JUPITER SE873		SiRF 5 (B02)	1.75 - 1.85	101	70	20	62	7 x 7 x 1.85	•	20			•	•	•	•	•			•	•	•	•		-148	-163	-166	•		•	•		•	•		
		JUPITER SE871		MT3333	2.80 - 4.30	72	66	21	21	10.1 x 9.7 x 2.4	•	18				•	•	•	•	•			•	•	•	•		-148	-163	-165	•			•		•	•	
		JUPITER SE868 V3		SiRF 5 (B02)	1.75 - 1.90	75	68	20	45	11 x 11 x 2.4	•	32				•	•	•	•	•			•	•	•	•		-148	-163	-166	•		•	•		•	•	
		JUPITER SE868-A		MT3333	2.80 - 4.30	84	72	21	21	11 x 11 x 6.1	•	24				•	•	•	•	•			•	•	•	•		-148	-163	-165	•					•	•	
		JUPITER SL869		ST Teseo 2	3.00 - 3.60	234	138	69	219	16 x 12.2 x 2.4	•	24				•	•	•	•	•	•			•	•	•	•		-146	-158	-162	•	•		•	•	•	•
		JUPITER SL869 V2		MT3333	3.00 - 3.60	115	89	21	21	16 x 12.2 x 2.4	•	24				•	•	•	•	•	•			•	•	•	•		-148	-163	-165	•			•		•	•
		JUPITER SC872-A		MT3333	3.30 - 5.00	90	78	15	21	21 x 22 x 8.5		4				•	•	•	•	•	•			•	•	•	•		-148	-163	-165	•					•	•
		JUPITER SL869-3DR		ST Teseo 3	3 - 3.6	234	140				16 x 12.2 x 2.4	•	24				•	•	•	•	•			•	•	•	•		-148	-160	-162	•			•		•	•
		JUPITER SL869-V3		ST Teseo 3	3 - 3.6	234	140				16 x 12.2 x 2.4	•	24				•	•	•	•	•			•	•	•	•		-148	-160	-162	•			•		•	•

TECHNOLOGY		PRODUCT			FAMILY FORM FACTOR	FREQUENCY	RANGE	EMBEDDED STACK	DATASPEED	POWER SUPPLY		ENVIRONMENTAL	
RADIO TECHNOLOGY	TECHNOLOGY Short Range	SHORT to LONG RANGE RF PRODUCTS	Picture - Back side	FAMILY FORM FACTOR	Frequency	Range	Embedded Stack Option	Radio Data Rate	Idle power saving	Output Power	Size (mm)	Antenna connector	
Short to Long Range RF	Star Network												LE 50-433 / 868
	Sigfox Star Network	LE 51-868 S	863 MHz - 870 MHz	up to 2000 m up to 40 km	Star + repeater mode Sigfox gateway	2.4 Kbps to 115.2 Kbps 100 bps	1.5 µA	35 mW					
	Star Network	LE 70-868 / 915	868 MHz / 915 MHz	up to 10 km	Star	4.8 to 57.6 Kbps / 9.6 to 57.6 Kbps	1µA	500 mW					
	Wireless M-Bus EN13757	ME 50-868	868 MHz	2000 m	Wireless M-Bus	4.8 to 100 Kbps	1µA	25 mW					
	Wireless M-Bus EN13757	ME 70-169	169 MHz	20 km	Wireless M-Bus	2.4 to 19.2 Kbps	1.5 µA	up to 1 W					
	IEEE 802.15.4 Zigbee	ZE 51 / ZE 61-2.4	2400 MHz	1000 m / 4000 m	Zigbee® Pro	250 Kbps	1µA	2.5 mW / 100 mW	RF pad				

• = Yes ○ = Optional

BLUETOOTH® MODULES



PRODUCT	BLUEMOD+SR	BLUEMOD+S
Supported profiles	SPP, GATT, Terminal I/O	Terminal I/O GATT Central and Peripheral Automation I/O, SCIS
Dimensions (mm)	10 x 17 x 2.6	10 x 17 x 2.6
Bluetooth qualification	V4.0	V4.1
Certification	CE, FCC, IC, KCC, MIC	CE, FCC, IC, KCC
RF-Power (max)	-23 to +8 dBm	-30 to +5 dBm
Range (open air, line of sight)	Up to 100 m	Up to 50 m
Antenna, internal	Ceramic	Ceramic
Access antenna external	Pin	n/a
Serial	9.6-921 kbps	9.6-921 kbps
Pins	LGA	LGA
Temperature range	-30°C to +85°C	-25°C to +75°C
Power supply	2.5V - 3.6V	1.8V - 3.6V
Power consumption transmission	15-27 mA (depending on connection parameters)	2 - 6 mA (depending on connection parameters)
Power consumption idle	SPP: 0.75 mA Terminal I/O: 0.25 mA	0.021 mA
Power consumption deep sleep	0.15 mA	0.003 mA
Evaluation and Development Kits	BlueEva+SR	BlueEva+S, BlueEva+S/ADC, BlueEva+S/Central BlueDev+S with A NT support



IoT INNOVATION

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to help you create IoT enabled solutions and applications, with complete lifecycle management in all market segments and functions



IoT MODULES



IoT CONNECTIVITY



IoT PLATFORM

Together, our offerings in these three essential areas of application enablement deliver so much business breakthrough power, we call it the **Telit IoT Engine**



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