



# ITalks MCS 1608 sensor node

PUSHING THE LIMITS OF COMMUNICATION TECHNOLOGY

## Integrating sensor functionality for various applications

The ITalks MCS 1608 LoRa and Sigfox series are developed in order to integrate sensor functionality for various applications. It communicates with the widely available Low Power Wide Area Networks (LPWAN) LoRa and with Sigfox.

Time to market is very important in the LPWAN market segment. Therefore the ITalks MCS 1608 is developed to enable customers to be on the market in a matter of weeks.

Several versions can be supplied: Full, Tracer, i/o. See table with all specifications of what each device offers you.



### HIGHLIGHTS:

- Sensor device for long range LoRa or Sigfox
- Battery powered
- Protection class IP67 device for outdoor use
- Operation range -20 till +85 °C
- Possibility to program own software application
- Many accessories available for tailor made applications
- Ask for our custom solutions



GPS

3D accelero meter

battery powered

3D magneto meter

2 x i/o digital analog 1wire

temp

humidity

air pressure

Do you prefer a complete solution? Have a look at our ITalks Starterspackages, such as non powered asset tracing. Please call us or visit our website for more information.



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	ITalks MCS 1608	Full	Tracer	i/o
Art.nr	LoRa	110517	110517 T	110517 R
Art.nr	Sigfox	110517 FS	110517 TS	110517 RS
	Temperature sensor	✓		
	Humidity sensor	✓		
	Barometer	✓		
	GPS receiver	✓	✓	
	Accelerometer	✓	✓	
	Gravity sensor	✓		
	Magnetometer	✓		
	Gauss-Detector / Hall sensor	✓		
	2x digital i/o	Optional		Optional
	1Wire sensor connection	Optional	Optional	Optional
	2x analog input	✓		✓
	IP67 casing	✓	✓	✓
	Battery (contact us about custom mAh)	8.800 mAh	8.800 mAh	8.800 mAh
	Dimensions 8.800 mAh L x B x H mm	81 x 74 x 31	81 x 74 x 31	81 x 74 x 31
	Center-to-center pitch mm	80	80	80

## Options, accessories

### PROGRAMM / CONFIGURE / UPDATE

110520S	Serial configure and debug cable	Optional	Optional	Optional
110532	ITalks ED1000 unit for firmware updates	Optional	Optional	Optional
110520	Atmel studio for programming own SW application	Optional	Optional	Optional

### EXTERNAL SENSORS

110530-TEMP1/3	External temperature sensor with 1 or 3m cable	Optional	Optional	Optional
110530-AIK	Analogue input cable 2,5m	Optional		Optional
110530-DIK	Digital input cable 2,5m	Optional		Optional
110530-WAR	Metal swivel instead of standard swivel IP67	Optional	Optional	Optional

### EXTERNAL MOLEST PROOF ANTENNA PACKAGE

P110530-IPEX	Package external molest proof antenna	Optional	Optional	Optional
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### SMALL FORM FACTOR

110518B	Battery pack 2.200 mAh L X B X H 81 x 74 x 16 mm	Optional	Optional	Optional
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### OTHER ACCESSORIES

129001	Black screw vent with locking nut <sup>1</sup>	Optional		
110518M	4x Magnets with 4 screws	Optional	Optional	Optional
110518	Battery pack 8.800mAh	Optional	Optional	Optional

<sup>1</sup>Necessary when measuring humidity or air pressure. Screw locks make the casing water- and dust proof.