

# Datasheet

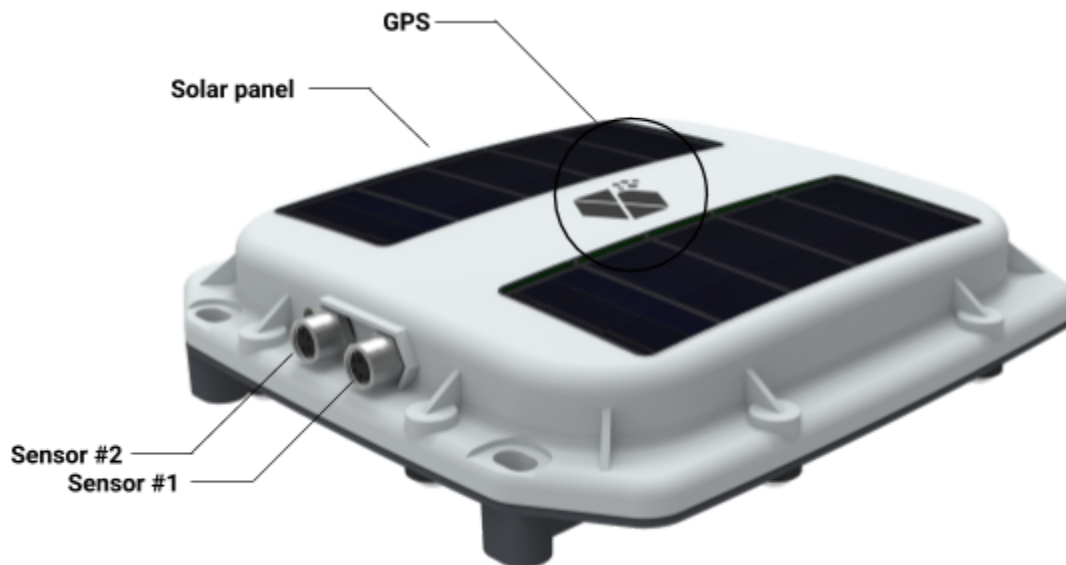
MPN: xeelas-series-s2-r1c

## Xeelas Series S2

A sustainable track and monitoring unit to locate a mobile asset or machine effortlessly. Because of the presence of solar cells, this node continues to operate as long as the sun shines. By using the solar cells as GPS antennas, this node can get an accurate and fast GPS solution.

### Features

- IP67 waterproof casing
- Unlimited service life as long as the sun shines
- Double sensor interface for RS485, 1-Wire, 4-20mA, 0-10V and LIN Bus sensors.
- LTE-M or 2G connectivity with over the air upgrade feature



## Specifications

<b>Power</b>	
Internal	2.4V 2600 mAh lithium battery
Battery life	3 months without solar energy (4 messages a day)
<b>Mechanical</b>	
Physical connections	1 x M8, female, 6 pin, IP67 connector 1 x M8, female, 6 pin, IP67 connector
Sensor inputs	1-Wire sensors RS485 / ModBus LIN Bus Analog input ( $\pm 5V_{DC}$ , $\pm 10V_{DC}$ , $\pm 24V_{DC}$ , 0-20 mA)
Sensor power	5-24V, 100 mA max.
Enclosure	IP67, Polycarbonate, coated PCB
Dimensions	165 x 145 x 35 mm
Weight	440 g
<b>Technology</b>	
Internal sensors	Temperature and 3-Axis Accelerometer
Antennas	2G, GNSS and 2.4GHz internal antennas
Wireless	2G (GSM/GPRS), LTE-M (CATM1), 2.4 GHz
Positioning	GNSS (Galileo, GPS, GLONASS, BeiDou)
SIM	Comes with Embedded SIM (chip) (Micro SIM optional)
<b>Environmental</b>	
Installation	Indoor or outdoor
Operating temperature	-20 to 70 °C
Storage temperature	-20 to 70 °C
Operating humidity	10 - 95% non-condensing

## Connectors & Interfaces

Connector	Description
Sensor Connector #1 (M8, Female, 6 Pin)	Analog sensors
Sensor Connector #2 (M8, Female, 6 Pin)	Serial communication and digital sensors

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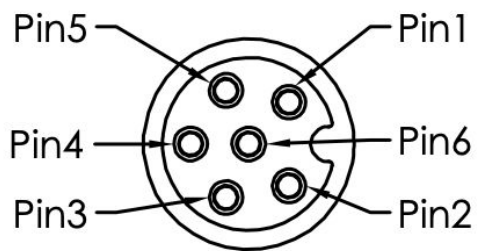
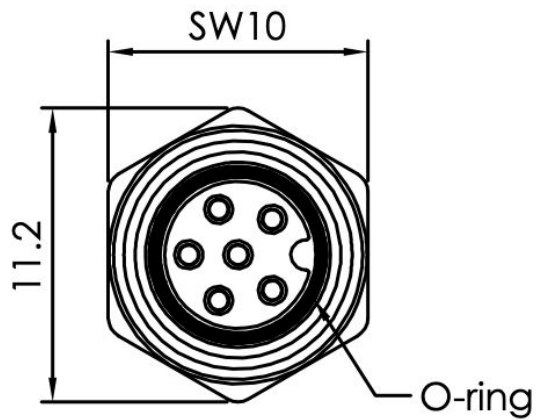
M8 Pin	Cable colouring	Signal	Characteristic
1	Brown	5-24V Output #1	Max. current is 100 mA @ 24V
2	Red	GND	
3	Orange	0-24V / 4-20mA #1	Can read 4-20mA or voltage sensors
4	Yellow	0-24V / 4-20mA #2	Can read 4-20mA or voltage sensors
5	Green	Dry Input	Pull to GND to activate
6	Blue	External power	Optional 5V External power

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M8 Pin	Cable colouring	Signal	Characteristic
1	Brown	5-24V Output #2	Max. current is 100 mA @ 24V
2	Red	GND	
3	Orange	RS485-A	RS485 Bus for ModBus
4	Yellow	RS485-B	RS485 Bus for ModBus
5	Green	1-Wire	1-Wire sensor bus
6	Blue	LIN Bus	LIN Bus

## Mechanical specifications

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Pin Assignment  
M8 female A-Coding 6Pin

