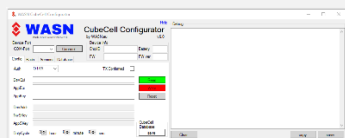# ModularNode MK2

Description

This watertight Node includes a 4000mAh LiPo battery,
which can be charged with an external solar panel.
The modular design allows to use the sensors you need.
You can connect up to 3 sensors directly to the node.
If you need more sensors you can easily add them with y-cables.
The node can be upgraded with 2 internal modules for many other interfaces.
Configuration is done with our WASN Configurator software for Microsoft Windows.

Specifications

- Timer and interrupt triggered measurement
- Integrated 4000mAh LiPo battery
- Solar charge option
- IP67 rated casing
- Complete modular design

Technical details

- based on an ASR650x MCU
- DeepSleep current of 16uA
- 3 external sensor interfaces with IIC and OneWire
- 2 internal plugin ports for various expansions:
  - Serial interface
  - RS485
  - Digital I/O
  - Analog inputs
  - ATECC608 crypto chip
  - …

Supported Sensors:

- Temperature, Humidity
- Air pressure
- Soil moisture
- Leaf wetness
- UV and light intensity
- Wind speed and direction
- Vibration
- Magnetic field
- Different gases like CO2
- …

WASN.eu
Wide Area Sensor Network

Wiesengrund 22
24232 Schönkirchen
GERMANY

www.wasn.eu   info@wasn.eu   +49 4348 9500887

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Wide Area Sensor Network

www.wasn.eu   info@wasn.eu

Wiesengrund 22
24232 Schönkirchen
GERMANY
+49 4348 9500887