

SOLAR NODE

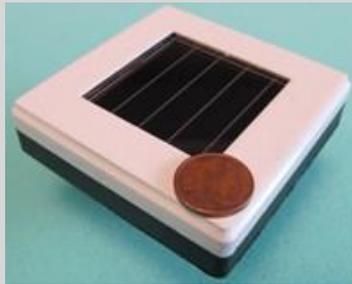
VIDA APP IoT NODE or GATEWAY
BLUETOOTH/GSM/GPRS
WITH SOLAR ENERGY



What is the VidaApp Solar Node?

The VidaApp™ Solar Node is the second product of the Internet of Things division of Integrated Systems Design and Development S.L. which offers state-of-the-art and energy-efficient devices with ultra-low power consumption.

The VidaApp™ Solar Node acts as a collecting node in a wireless sensor network. A node is an entity that receives and sends messages within a network and is known as a collecting node the one that acts as a gateway to the rest of the sensors. The device has a solar cell for energy harvesting through ambient light, charging also indoors.

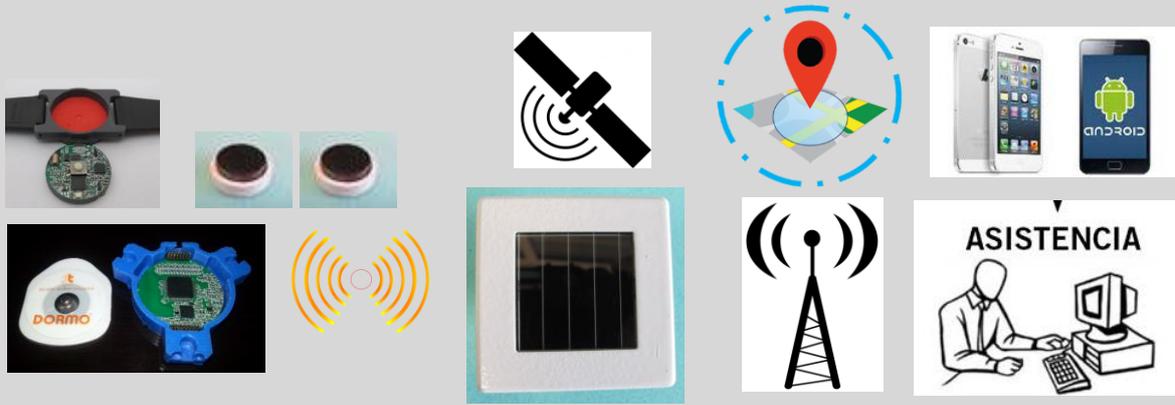


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How does it work?

Due to its IP67 sealing characteristics, the product is delivered with a SIM card inside the Solar Node with a prepaid price plan negotiated with the mobile operators. The user can keep that plan or contract the prepaid or contract price plan that suits him.

Through the application of the user portal in www.vidaapp.com, the user proceeds to register the data of the node adding the contact telephones to notify in case of alarms through voice and data calls and sending short messages. The sensors are automatically synchronized with the node through wireless communications such as Bluetooth, Wi-Fi and radio. All information from the sensors is collected by the node and sent to the cloud by mobile or radio-satellite communications so that it can be displayed to the user in the dashboard of the web application accessible on our site. Registered users receive notifications on mobile phones and tablets.



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The main circuits and features for the standard version of VidaApp Social Node are as follows:

1. Cortex M0 Micro Controller including a real-time clock - RTC.	5. GPS with PCB integrated antenna.
2. Bluetooth low energy 4.0 with PCB integrated antenna.	6. Programmable digital accelerometer with 3 axes and ultra-low consumption (6 μ A).
3. Mobile communication 2.5G GSM/GPRS with socket for mini SIM card.	7. Energy Harvesting. Which allows the board to use ambient or sun light to keep an internal battery charged.
4. EEPROM Memory (non-volatile) 2Mb and I2C connection.	

The standard version of VidaApp Solar Node is a multiple Gateway that allows GSM / GPRS communication with Bluetooth 4.0 low energy. This development is scalable with an additional PCB for a premium version that can be configured with the following communication systems:

- Bluetooth low energy.
- Wi-Fi.
- UHF Radio.
- 3G or 4G.
- Satellite radios depending on the satellite to use.
- Software radios from HF to microwaves.

CONTACT US FOR MORE INFORMATION

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