

Environment sensing board : Gallium 1.0

Powered By Ambient Light



WHAT IS GALLIUM 1.0

Gallium 1.0 is a stand-alone, wireless industrial sensor unit that can be equipped with additional sensors for custom applications. It collects location and environmental data and transmits the data with LoRaWAN®.

Powered autonomously by energy harvesting, it eliminates the need of batteries.



APPLICATIONS

Gallium 1.0 can be deployed in a wide range of applications:

- Mobile asset tracking
- Asset monitoring in harsh/cold climates
- Environmental monitoring in agriculture (with an additional soil sensor)
- Industrial gas detection with the addition of a gas sensor



OUR WEBSITE

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MAIN FEATURES

Dimension

3.2 x 3.2 x 1.2
(81*81*31mm)

Gallium 1.0 lifetime

More than 10 years

Communication protocol

LoRaWAN® technology

Range

Up to
5000m

Frequency

863 - 870 MHz
902 - 928 MHz

External 4-wire interface

Allows a variety of modules to interface with the CPU with I2C or UART

End-to-end multilayer data security



WHAT'S NEW

The Gallium 1.0 sensor is **self-powered** by Dracula Technologies OPV (organic photovoltaic) module.



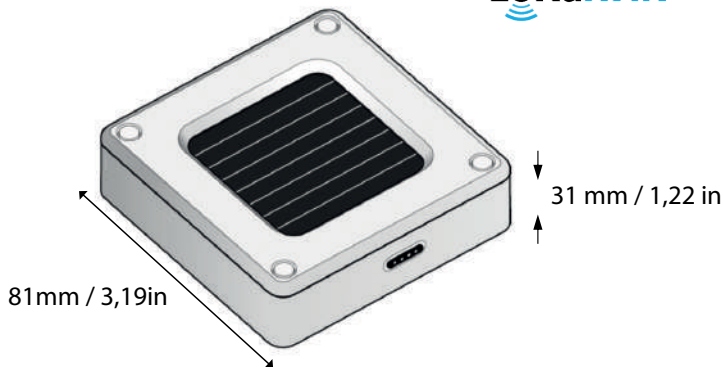
LAYER® 6B module from Dracula Technologies power Gallium 1.0



WHAT'S NEXT

- Compact size
- Flexible structure sensor
- Longer autonomy in the dark

LoRaWAN®



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