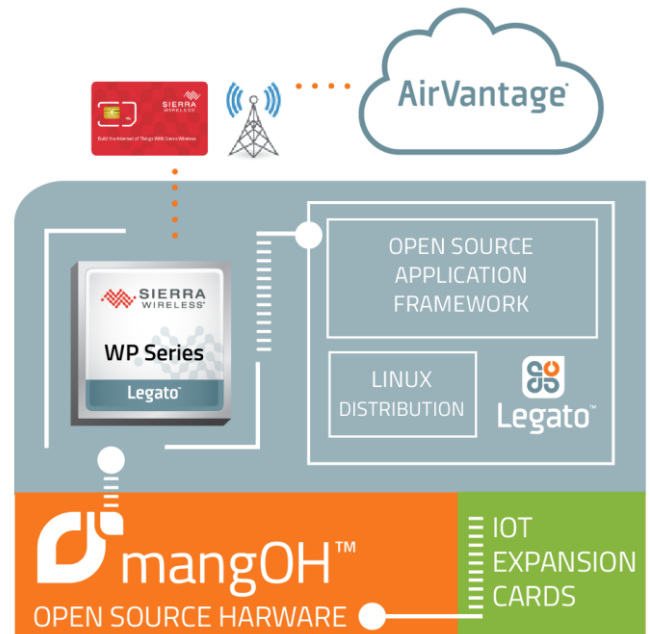




a new category of open hardware
sensor-to-cloud platforms for IoT

IDEA
to
PROTOTYPE
to
PRODUCT



Designed specifically for cellular-enabled IoT applications, **mangOH™** reference designs provide a sensor-to-cloud platform for rapidly prototyping ideas and getting them to production quickly. This new category of open hardware makes it easy to develop industrial-grade products with vetted components, open source software, and a business-friendly open license enabling users to modify and reproduce the design.

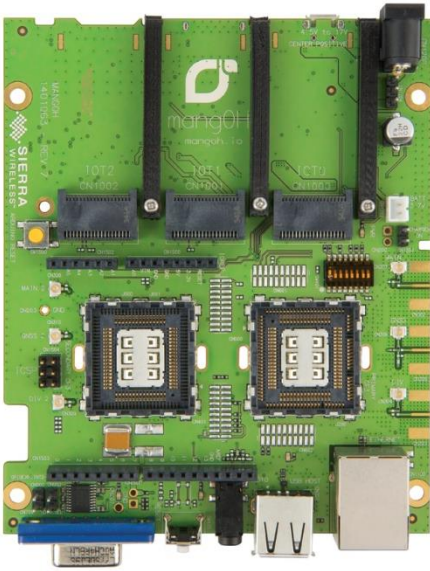
Partnering with the open source Legato™ platform on the WP Series of embedded modules from Sierra Wireless, mangOH delivers 90% of an IoT prototype out-of-the-box so users can begin creating their software and web applications immediately.

In addition to reference designs, the mangOH project released IoT Expansion Cards to provide plug-and-play wireless, wired, and sensor technologies that can be used in final product designs. Integrated seamlessly with Legato, mangOH reference designs:

- Automatically detect the IoT Expansion Cards to load drivers and applications (no integration required, just plug in and start building your apps)
- Provide data management service that builds local intelligence on the “edge” as well as pushes data to the big data servers.

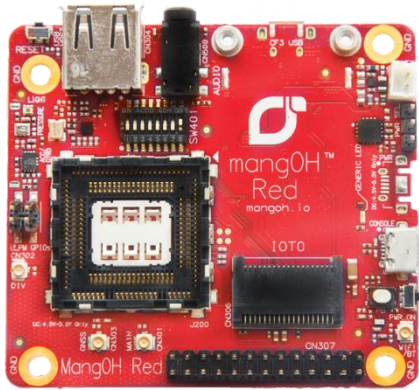


www.mangoh.io



mangOH Green is the ultimate prototyping platform for any IoT use-case with more expansion possibilities

- 3 IoT Expansion Card connectors
- 2 CF3™ sockets
- Arduino compatible connector
- Built-in Accelerometer and Gyroscope
- USB 2.0 Micro
- RS232/Serial
- RJ45/Ethernet
- Audio Jack
- Micro SD Card slot
- 2 SIM slots
- Fits into any Eurocard size case (100mm x 120mm)



mangOH Red is designed for low-power IoT use-cases in a smaller, lower-cost form factor.

- IoT Expansion Card connector
- CF3™ socket
- Raspberry Pi shield connector
- Wi-Fi and Bluetooth
- Built-in Accelerometer, Gyroscope, Light, and Altimeter
- MCU (Cortex M4)
- USB 2.0 Micro
- Audio Jack
- Micro SD Card slot
- SIM slot
- 3D-printable case designs (61mm x 69mm)

HARDWARE HIGHLIGHTS

- Includes a cellular modem for wirelessly connecting your IoT applications over a mobile network
- Powerful ARM-based application processor with GNSS receiver
- Built-in sensors including Accelerometer, and Gyroscope
- Can be powered by a battery for low-power wireless applications

SOFTWARE HIGHLIGHTS

- Pre-integrated with the open source Legato Linux platform for application-level development
- Robust connectivity APIs lets you access cloud and network services such as voice calls, SMS, data, radio controls
- Maintained Linux distribution based on the long-term supported Linux kernel (LTSI) hosted by the Linux Foundation

CLOUD SERVICES HIGHLIGHTS

- Pre-integrated with the AirVantage® cloud platform from Sierra Wireless
- HTTP-based RESTful APIs for integrating IoT data
- Big Data storage and analytics with aggregated data APIs for driving trend visualization
- Operations console provides a SIM and device management with monitoring dashboards and remote update capabilities for your edge applications