



What's Ahead: New Products Highlights

- **Strato Pi Plus**

A new industrial Raspberry Pi edge server engineered for reliable 24/7 operation with up to four RS-485 and one CAN FD interface.

The Strato Pi Plus transforms a Raspberry Pi into a high-reliability industrial edge server with a protected wide-range 10-50 V DC power input. Its hybrid architecture combines a Raspberry Pi 4 or 5 with a Raspberry Pi RP2354 microcontroller, enabling robust system supervision and real-time functions. The platform integrates up to four isolated RS-485 interfaces and one CAN FD interface, all individually isolated, along with a hardware watchdog, RTC with backup battery, and a secure element.

Housed in a compact DIN-rail enclosure with pluggable screw terminals, Strato Pi Plus is designed for continuous operation in industrial automation, field communications, and IoT edge applications requiring reliability, resilience, and standards compliance.

For more information: https://sferalabs.cc/wp-content/uploads/Strato_Pi_Plus_blurb.pdf

- **Iono Pi v3**

A new industrial Raspberry Pi PLC built for reliable control, monitoring, and IoT at the edge.

The new Iono Pi v3 integrates a robust power supply, protected I/O, and a Raspberry 4 or 5 into a compact DIN-rail controller. It supports wide-range DC power input, protected GPIO lines, relays, high resolution industrial standard analog voltage and current inputs, and secure hardware features for edge and industrial environments.

Designed for continuous operation, it enables fast deployment of Linux-based control, monitoring, and data-acquisition systems using standard industrial setups and open software tools.

For more information: https://sferalabs.cc/wp-content/uploads/Iono_Pi_v3_blurb.pdf

- **M.2 LTE Module X2-Series Expansion Board**

The new X2-Series X2BW10XM2Z M.2 LTE Module expansion board adds LTE connectivity and GNSS positioning to Strato Pi Max.

For more information: https://sferalabs.cc/wp-content/uploads/M.2_LTE_Module_X2-Series_Expansion_Board_blurb.pdf

Introducing Strato Pi Max

Our CEO Ulderico details the Strato Pi Max's evolution and success, showing how "it's possible to create industrial control systems based on the Raspberry Pi."

Powered by the Raspberry Pi Compute Module 4 and 5, the Strato Pi Max is a modular industrial controller dedicated to complex industrial environments delivering unmatched flexibility and expandability.

- **Strato Pi Max Success Story on Raspberry Pi:** <https://www.raspberrypi.com/success-stories/sfera-labs-industrial-controllers/>
- **Discover the core server** and its powerful performance: https://sferalabs.cc/wp-content/uploads/DENA_Introducing_Strato_Pi_Max.pdf
- **Tailor solutions** with the X2-Series Expansion Boards: https://sferalabs.cc/wp-content/uploads/DENA_X2_Series_Intro.pdf

Case Histories

- A German company specialising in innovative electronic storage products has deployed Sfera Labs technology to automate the hand-over of keys in its latest family of robust and secure compartment safes.

Learn more: <https://sferalabs.cc/blog/sfera-labs-strato-pi-compute-module-brings-dependable-robust-automation-to-masunts-compartment-key-safe/>

- An Australian flow battery company streamlined its battery management system using Sfera Labs technology and made it more cost-effective.

Learn more: <https://www.batterytechonline.com/battery-management-systems/battery-management-for-the-ubiquitous-raspberry-pi-microprocessor>

- Pleasure craft gets a Raspberry Pi-based makeover

Learn more: <https://www.raspberrypi.com/news/sfera-baltic-boat-gets-another-raspberry-pi-based-makeover/>

- Sfera Labs' Technology Powers Hi-Interiors' Futuristic Beds

Learn more: <https://sferalabs.cc/blog/a-truly-embedded-system-sfera-labs-technology-powers-hi-interiors-futuristic-beds/>