DATA MODUL starts series production of the powerful single board computer with NXP i.MX8M Plus processors

Munich, 04 June 2025

Following a successful development phase, DATA MODUL is starting series production of its eDM-SBC-iMX8MP single board computer. The compact computer based on the i.MX8M Plus processor is now available from stock and offers a flexible, powerful platform for demanding embedded applications focussing on display control, AI functionality and industrial communication.

Designed for long-term operation, the solution is suitable for a wide range of applications – from supermarket scales, industrial automation and EV charging stations to video surveillance and human-machine interfaces (HMI). Up to three displays can be controlled simultaneously with different content and resolutions, enabling complex user interfaces.

A particular advantage is the integrated AI acceleration (NPU) and support for two MIPI CSI camera connections. This allows modern image processing tasks, such as automatic fruit recognition on self-service scales or visual inspections in industry, to be realised efficiently. Video de/encoders and a camera DSP ensure smooth and low-latency processing of the video data.

Two gigabit ethernet ports are available for secure and flexible networking, enabling the operation of separate networks – a decisive advantage for safety-critical applications, for example for connecting to ERP or cloud systems. Additional interfaces such as USB 3.0, USB 2.0, RS485, UART, I²C, SPI, audio and CAN-FD as well as an integrated Cortex-M7 microcontroller for real-time processing significantly expand the application possibilities. Optional WiFi and bluetooth modules as well as variants for extended temperature ranges are available.

„With the eDM-SBC-iMX8MP, we offer a versatile embedded platform that covers classic industrial applications as well as modern, AI-based systems," explains Robert Nerbl, Product Manager – Electronics & Peripherals at DATA MODUL. „In particular, the ability to control multiple displays in parallel and the integrated camera and AI functions open up many new application possibilities in retail and industry."

The eDM-SBC-iMX8MP is supplied with comprehensive Linux (Yocto) support. Customisation to individual customer requirements is possible at any time. With a typical power consumption of less than 5 watts and the option of passive cooling, the board offers a future-proof embedded basis with long-term availability until at least 2036.

More information can be found at data-modul.com

About DATA MODUL
As a passionate enabler, DATA MODUL AG does everything in its power to turn customers' visions into reality. With a comprehensive understanding of hardware, software and services as a harmonious unit, the focus is on developing customised display solutions that precisely meet the specific needs and objectives of the customer. The outstanding core competence of DATA MODUL AG lies in customising, whereby the company not only provides products, but rather tailor-made solutions with a clear market focus. With over 50 years of experience, DATA MODUL AG represents financial stability, innovative strength and international growth. Its presence at more than 20 locations worldwide and a total area of around 40,000 square metres for production, logistics and administration enables the company to respond flexibly to global challenges.