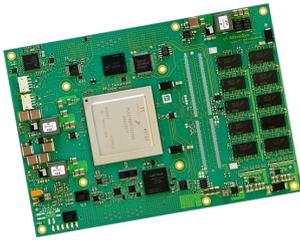


SYSTEM-ON-MODULE

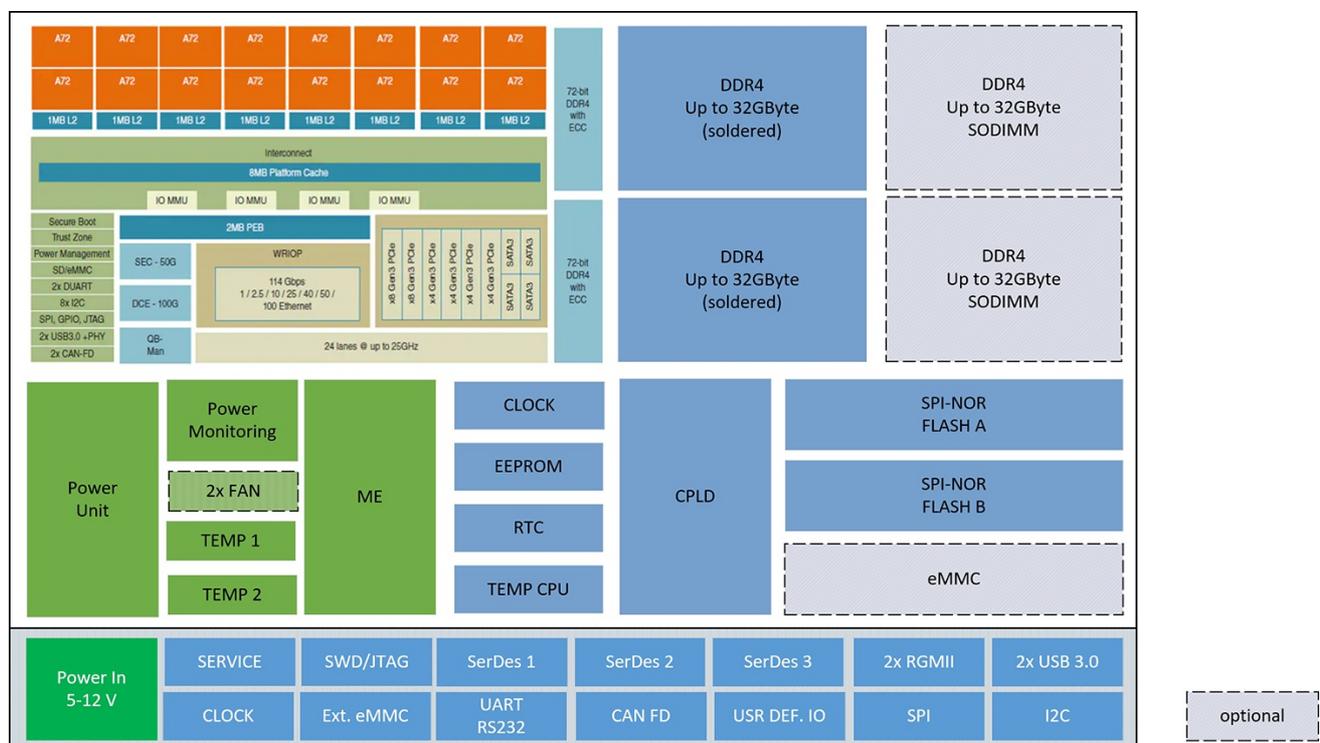
Rugged edge server module for commercial vehicles

The Miriac MPX-LX2160A system-on-module (SOM) by Micorsys Electronics is dedicated for use in commercial vehicles and mobile systems. It offers two CAN FD interfaces.



The module is based on the NXP LX2160A processor and offers 16 Arm Cortex-A72 cores, which is twice as many as in its predecessors. This serves the requirements of (artificial intelligence) edge server applications, autonomous driving, and situational awareness in cobot applications. Typical use cases are found in V2X (vehicle-to-any) communications e.g., edge servers in trains, planes, commercial vehicles, and autonomous mobile systems. The SOM is also dedicated for functional safety applications.

The SOM is suited for use in (artificial intelligence) edge server applications, autonomous driving, and cobot applications (Source: Micorsys Electronics)



Miriac MPX-LX2160A SOM block diagram (Source: Micorsys Electronics)

The peripherals include two CAN FD, 100-Gbit/s Ethernet, two USB 3.0, SPI, I²C and further interfaces. A choice of PCIe 3.0 interfaces is offered. Overall processing performance is supported by a 50-Gbit/s security engine and a 100-Gbit/s compression/decompression engine. The 64-GiB DDR4 RAM can be extended. External hard disks can be connected. The operating temperature from -40 °C to + 85 °C and a power supply of 5 V_{DC} to 12 V_{DC} is possible. The board support package includes the bootloader configuration and the required Linux drivers. The module is available as an off-the-shelf component, or as a development kit with carrier board, cable set, and cooling solution.



NXP announced their S32G vehicle network processor at this year's CES show. As an early adopter, Micorsys offers the Miriac MPX-S32G274A system-on-modules and development kits based on this central processing unit family. The system combines interfaces for CAN (18 CAN, two CAN FD), Flexray, LIN, and Ethernet interfaces for automotive networking.

Established in 1975, the company develops and manufactures embedded systems solutions in close cooperation with NXP. The portfolio ranges from system-on-modules to fully integrated systems.

Miriac MPX-S32G274A system-on-modules are based on the NXP's S32G processor (Source: Micorsys Electronics)

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