

SpaceSOM-8Mplus

Datasheet and Pinout

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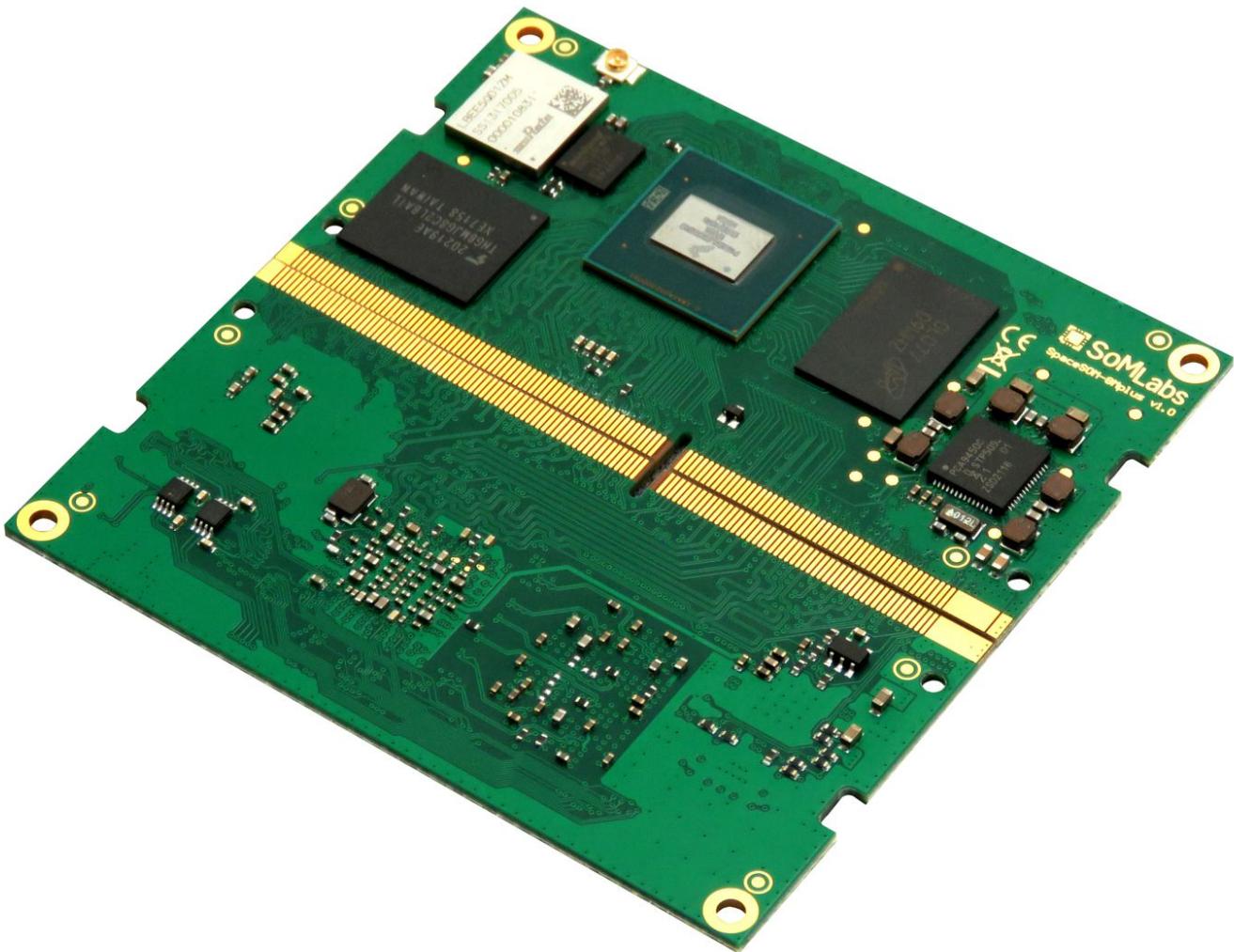
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SpaceSOM-8Mplus Datasheet and Pinout

General description



The SpaceSOM-8Mplus family is a SODIMM-sized SoM based on the NXP quad core i.MX8M plus application processor which features an advanced implementation of NPU (ML+AI) coprocessor, a dual or four ARM Cortex-A53 cores (at speed up to 1.8GHz) and ARM Cortex-M7 core (at speed up to 800MHz) as well as a 2D (HD1080p60) and 3D Graphics Processing Unit (GPU) Open GL 3.01ES compatible and Video Processing Unit (VPU) with D1080p60 H.264 and HD1080p60 H.265 capabilities.

The SpaceSOM-8Mplus is a multimedia and video oriented, highly integrated SoM (System on Module) featuring high computation power and dual-band 2.4/5GHz, 802.11a/b/g/n/ac Wi-Fi and Bluetooth v5.1 connectivity. The option of integrated, fully certified Wi-Fi and Bluetooth module simplifies the carrier board design and is ideally suited for wireless application. The SpaceSOM-8Mplus provides a variety memory configuration including flexible range of LPDDR4, eMMC or SD memory card that meets our customers requirements.

The SoM supports connections to a variety of interfaces: two high-speed USB 2.0/3.0 on-the-go with PHY, dual Ethernet 1Gbit, audio, display with touch panel and MIPI-DSI/HDMI/LVDS interface and serial communication interfaces. In addition,

the system supports industrial grade embedded applications.

SoMLabs also provides a complete hardware and software development board for the SoM in the form of a carrier board and optional TFT display and touch panel.

Applications

- Machine vision equipment
- Robotics
- Human-machine Interfaces (HMI)
- IP Cameras
- Video Stream Servers
- Home Appliances
- Home Automation - Smart Home
- IoT gateways
- Residential gateways
- Industrial embedded Linux computer
- Fitness/outdoor equipment

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