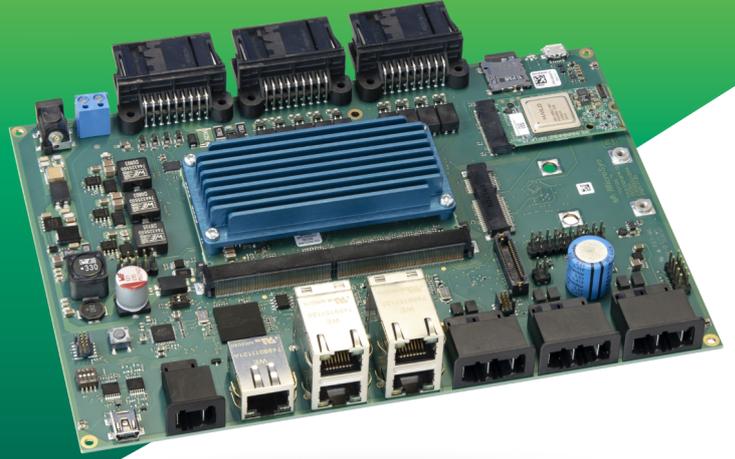


# miriac® AIP-S32G274A

Second application-ready building block based on the NXP® S32G274A vehicle network processor.

- Up to 2 parallel Hailo-8™ AI processors for massive processing performance up to 52 TOPS
- Full Hailo-8™ performance combined with maximum power efficiency (FPS / W ratio) compared to other solutions from competition
- Up to 382 YOLOv5m / 2458 Resnet\_v1\_50 / 2080 Ssd\_mobilenet\_v1 object detection frames (416 x 416) per second
- Comprehensive Hailo AI ecosystem incl. AI toolchain and developer tools
- Deep learning pre-trained models for various computer vision tasks to create fast prototypes on the AI platform



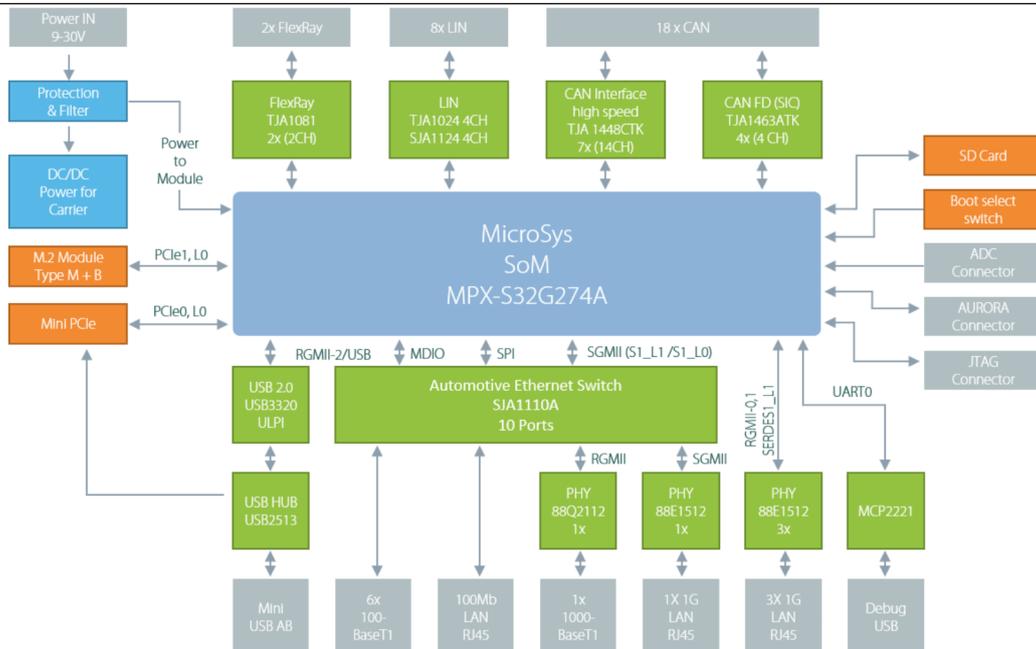
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## High-performance embedded AI platform

This AI platform enables industrial smart gateways with AI features for smart manufacturing, smart grids, industrial automation and more.



### Block Diagrams



## Memory

Flash	64 MB QSPI Flash
Flash Card	Yes
Boot Flash	Boot select: XSPI, eMMC or external SD card
eMMC	Up to 32 GB

## Ethernet

1GbE	1x
1000BASE-T1	1x
100 Mb	1x
100BASE-T1	6x
TSN / IEEE 1588	Yes

## High Speed IO

USB 2.0	1x
miniUSB	1x

## IO

CAN FD	18x
FlexRay	2x
LIN	8x
Analog Inputs (ADCs)	12x
GPIOs	Yes
JTAG Debug Interface	Yes
Aurora Interface	Yes
miniPCle	1x
M.2	1x (type M)

## Operating Condition

Power Supply Voltage	Single +12 V DC power input (+9 V to +15 V)
RTC	Yes

RTC-Buffer Supercap

Temperature 0 °C to 70 °C

### Mechanical

Dimensions 200 mm x 140 mm

### Software / Additional

Software Support

- Linux
- VxWorks (on request)
- Others (on request)

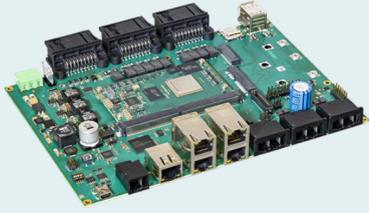
Additional Development Kit for immediate start up; includes power supply, Linux pre-installed

Our standard product versions offer what we consider to be the optimum configuration in terms of performance, price, usage and TDP. The product features lists specify the maximum range of functions per interface. However, not all interfaces or functions are always available in parallel. Flexible SERDES multiplexing is one of the reasons for this. In addition, we provide multiple memory expansion options and are also happy to accommodate specific customer wishes. So do not hesitate to contact us directly to discuss your desired configuration.

### Order Info

Name	Code	Description	Status
AIP-S32G399A Development Kit basic for miriac® MPX-S32G399A + 1x Hailo-8™	TBD	<ul style="list-style-type: none"><li>• miriac® MPX-S32G399A</li><li>• CRX-S32G</li><li>• 1x Hailo-8™ M.2 AI Acceleration Module (NGFF M.2 2242/2260/2280 Key M Card)</li><li>• incl. BSP and accessories</li></ul>	active

## Take a look at related products



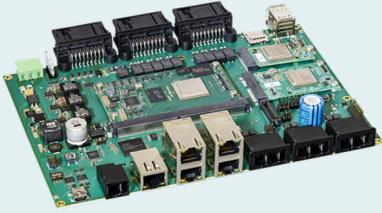
**miriac® SBC-S32G274A**



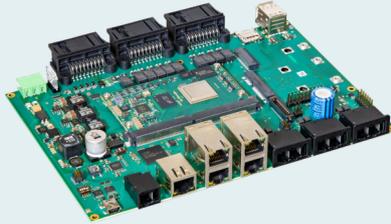
**miriac® MPX-S32G274A**



**miriac® MPX-S32G399A**



**miriac® AIP-S32G399A**



**miriac® SBC-S32G399A**



**miriac® AIP-LX2160A**



**CRX-S32G**