

# SJA1110-EVM Evaluation Board

Evaluation board for SJA1110 Multi-Gig Safe and Secure TSN Ethernet Switch

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## Overview

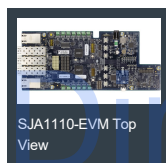
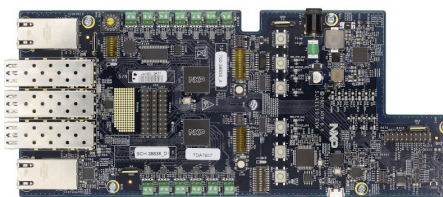
Preproduction, available to selected customers only (non-disclosure agreement (NDA) required).

The SJA1110-EVM is an evaluation board for the SJA1110 automotive Ethernet switch.

The board includes two SJA1110A switches and it enables the evaluation of all supported features including AVB, TSN and the control of two switches in cascaded configuration. It is compatible with the SJA1110 software development kit (SDK) and the optional AVB/gPTP middleware (available separately).

The board offers 13x 100BASE-T1 PHYs, all compatible with OPEN Alliance TC10 wake-up forwarding. It also offers 1x 100BASE-TX and 1x 1000BASE-T PHYs with RJ45 connector, as well as three generic SFP and SFP+ connectors for external multi-gig PHYs.

Finally, the SJA1110-EVM board supports the SABRE connector capable of mating with NXP® processors and controller motherboards such as i.MX and S32x processors families.



SJA1110-EVM Top View



SJA1110-EVM Isometric View



Power AC-DC Adapter



Interchangeable plug



Interchangeable plug



Interchangeable plug



## Specifications

Supported Devices

<b>Interfaces</b>	
	<ul style="list-style-type: none"> <li>• <a href="#">SJA1110</a> : Multi-Gig Safe and Secure TSN Ethernet Switch with Integrated 100BASE-T1 PHYs</li> </ul>
	<ul style="list-style-type: none"> <li>• <a href="#">TJA1101</a> : 2nd generation Ethernet PHY Transceivers - IEEE 100BASE-T1 compliant</li> </ul>
<b>Power Management</b>	
<b>Safety SBCs</b>	<ul style="list-style-type: none"> <li>• <a href="#">VR5510</a> : Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, fit for ASIL D Safety level</li> </ul>

## Technical and Functional Specifications

<b>General</b>	<ul style="list-style-type: none"> <li>• Connects directly to PC via USB</li> <li>• Connects to i.MX and S32x processor evaluation boards</li> <li>• Enables fast prototyping of ECUs</li> <li>• Show all features of SJA1110 series</li> <li>• OPEN Alliance TC10 wake-up forwarding</li> <li>• Cascaded switch configuration</li> <li>• 3x SFI and SFI+ connectors for up to 2.5 Gbps PHYs</li> </ul>
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## Design Resources

### Get Started

Review this section to become familiar with the hardware specifications.

**Get Started**

[Get Started with the SJA1110-EVM](#)

HTML

GS-SJA1110-EVM

The following is available to selected customers only (NDA required).

**Enablement Kit Development Support**

The SJA1110-EVM kit includes:

- Registration ID for permission to download the development suite (downloadable upon activation. An NDA is required)

Access to the development suite includes:

- Product documentation:

SJA1110 Datasheet

[Show more](#)

DOCUMENTS ( 1 )

Users Guide ( 1 )

Documents

Users Guide ( 1 )

[Get Started with the SJA1110-EVM](#)

This page will help guide you through the process of learning about your SJA1110-EVM board.

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17 Jun 2020

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[ English ]

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