



TJA1121, MACsec Enabled ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver

TJA1121

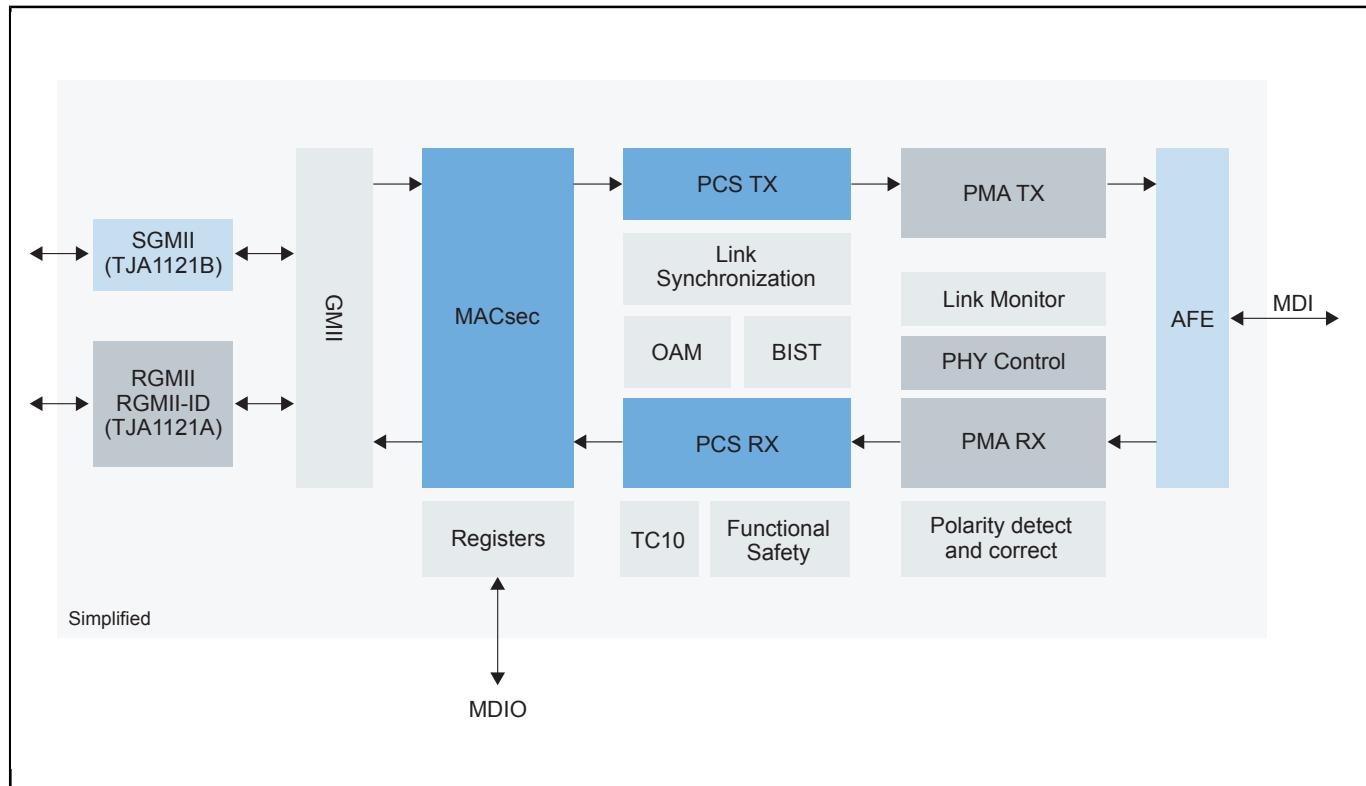
Active

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TJA1121 adds MACsec to NXP's 1000BASE-T1 Automotive Ethernet PHY portfolio. It addresses the security concerns for future networks and provides an efficient HW based solution for MACsec at 1 Gbps line rate. To enable speed grade scaling for platform designs with and without MACsec, the TJA1121 is kept drop in compatible with [TJA1103](#), [TJA1104](#) and [TJA1120](#). The device comes in compact package HVQFN36 (6 x 6 mm) for space constraint use cases.

TJA1121 complies with all state-of-the-art conformance test specifications and is designed according to ISO 26262 to meet ASIL B, providing enhanced monitoring and diagnostic features. Further, it integrates OPEN Alliance TC-10 compliant wake-up forwarding over the Ethernet data line. It supports shielded (STP) and unshielded twisted pair (UTP) cable applications.

TJA1121 Block Diagram



[View additional information for TJA1121, MACsec Enabled ASIL B Compliant Automotive Ethernet 1000BASE-T1 PHY Transceiver.](#)

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