



S32J100 High-Performance Ethernet Switch and Network Controller

S32J100

Preproduction

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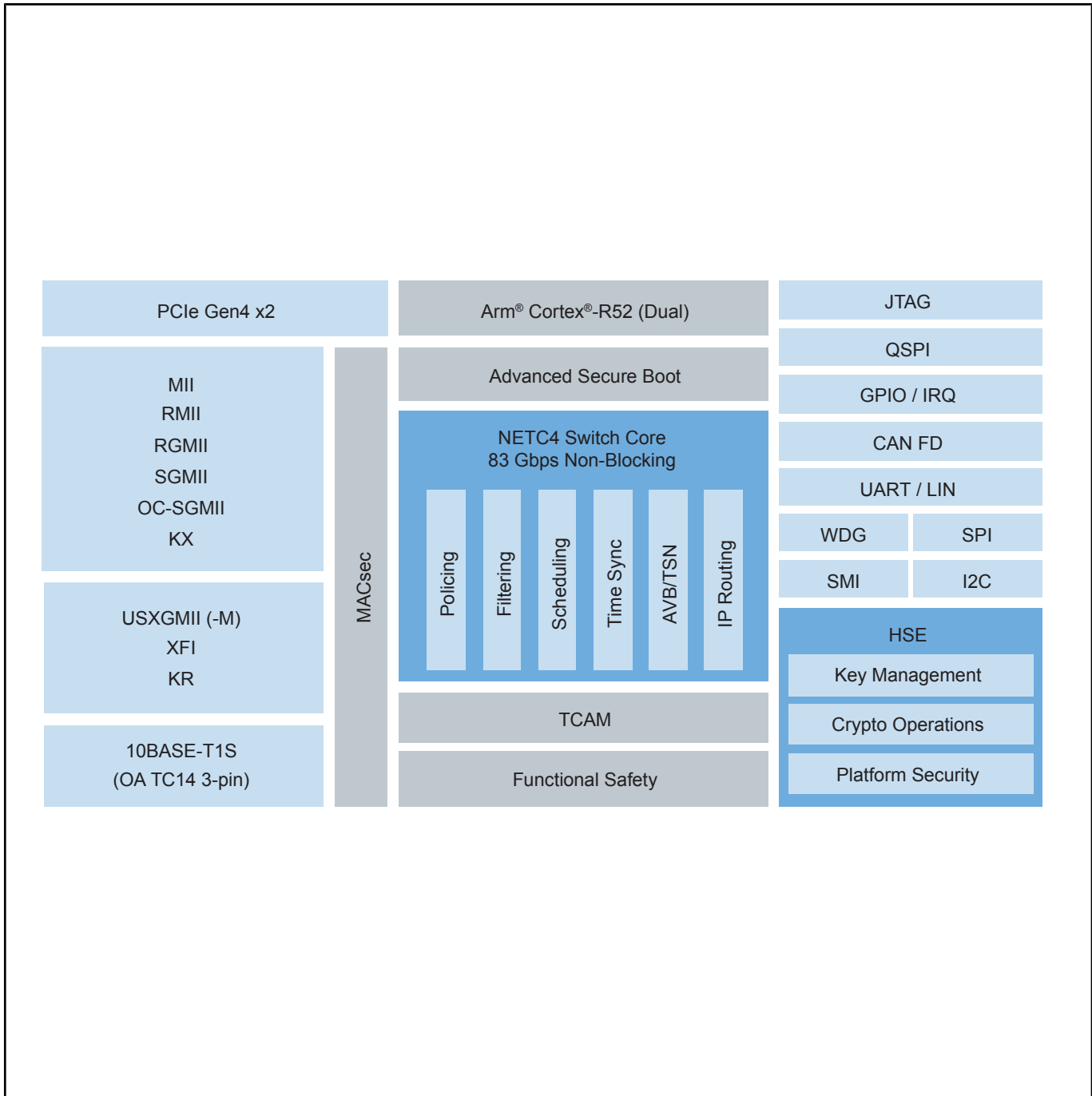
The S32J100 Ethernet Switch and network controller provides dynamic and automated configuration options, making it the ideal solution for a wide variety of in-vehicle applications. Whether for central compute, zonal controllers, ADAS, or IVI systems, it consistently delivers the performance and flexibility essential for supporting zonal architectures and software-defined vehicles (SDVs).

As part of the NXP S32 platform, and leveraging the common NETC networking foundation, the S32J family maximizes software reuse, streamlining development and integration across diverse automotive systems. The new S32J family is at the heart of NXP CoreRide Networking, bringing flexibility, cost efficiency and speed of deployment to companies developing SDV architectures.

With high non-blocking switching capacity, S32J100 offers a range of port interfaces with speeds from 10 Mbps to 10 Gbps. Supporting the latest TSN standards, it optimizes data flows to ensure safe, secure, and real-time communication, while the embedded hardware security engine provides advanced, hardware-accelerated protection for sensitive data streams.

PCIe integration ensures high-bandwidth, low-latency connectivity for real-time processing and high-performance applications. The high-performance dual-core CPU, capable of operating in lockstep or splitlock modes with dedicated on-chip memory, delivers robust processing power.

S32J100 Block Diagram



View additional information for [S32J100 High-Performance Ethernet Switch and Network Controller](#).

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