# TrustSoM 200

TrustSoM is part of the Scalys TrustBox solutions (a portfolio of hardened systems and communication devices and solutions). Based on layerscape® LS1028A family. TrustSoM modules offer flexibility and scalability for numerous IoT applications. Featuring end-to-end security by combining a cutting-edge software and hardware hardening platform which is easy to deploy.
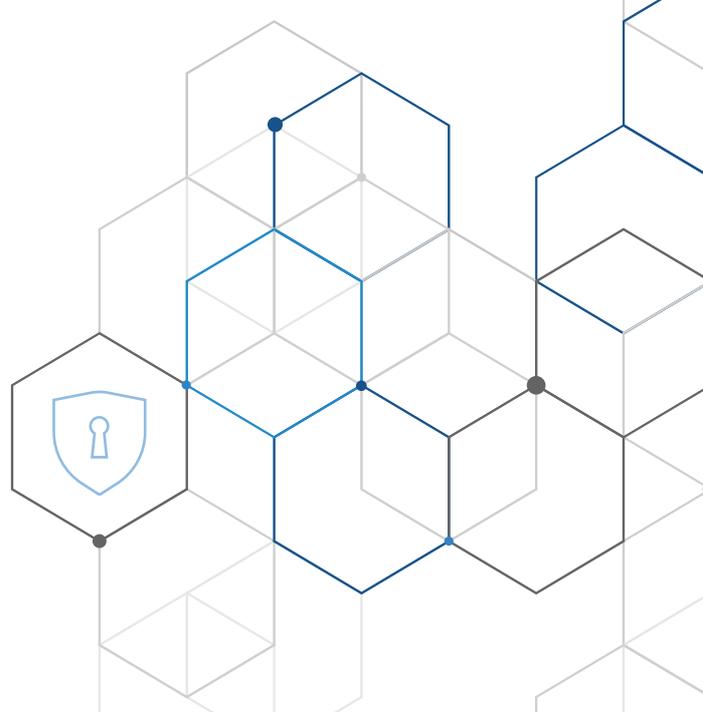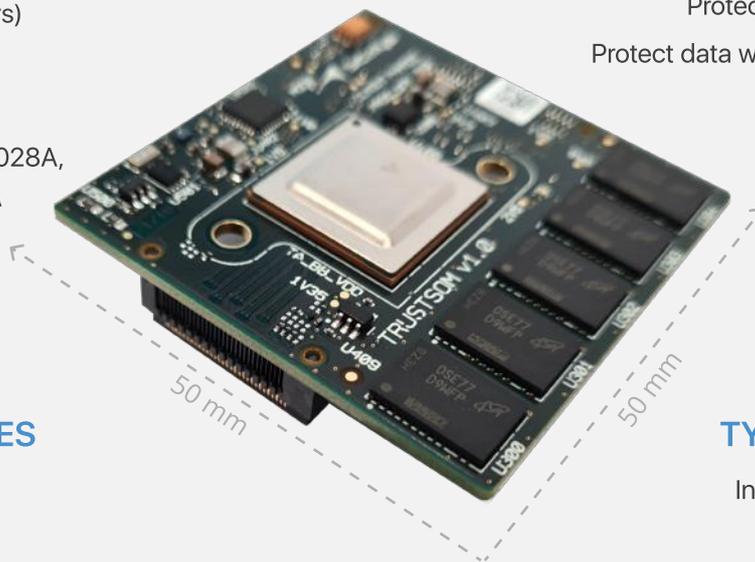
KEY BENEFITS

Optimized Price-Performance

Secure foundation

Longevity support (10+ years)

Industrial temperature grade

Azure IoT Edge certified

Various series available: LS1028A, LS1027A, LS1018A, LS1017A

SECURITY

IoT security by implementing Arm TrustZone®

Trusted Platform Module – Infineon OPTIGA™ TPM
Protection of IP (e.g. AI / ML models)

Protect data when in use, storage and at rest (Confidential Computing)

TECHNICAL FEATURES

NXP LS1028A SOC

armV8 A72 dual core

1.5 GHz /4 GiB

Infineon OPTIGA™ TPM (SLM9670)

Compact 50x50 mm

TYPICAL APPLICATIONS

Industrial Network Infrastructure (control & monitoring)

BMS gateway (Building Management System)

Edge computing infrastructure (AI & ML)

Secure router

FOR TRUST AND INTEGRITY

TrustSOM combined with the features of the TPM Chip offers a complete end-to-end secure platform.

In addition the LS1028A leverages NXP's Trust Architecture, delivering a strong security foundation for devices deploying containers and microservices.
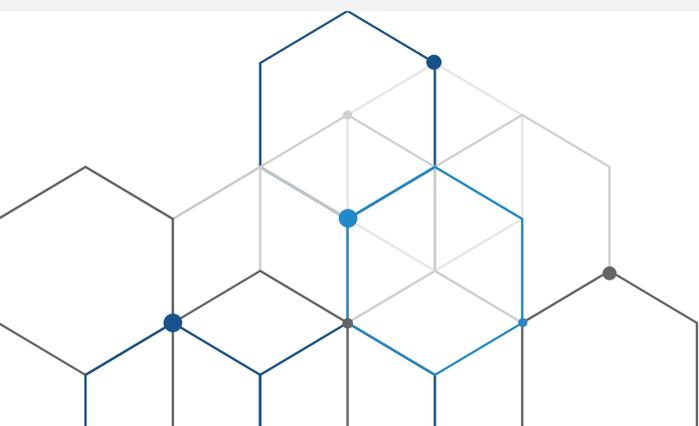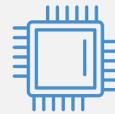
CUSTOM DESIGN SERVICES

We can support you with a custom (carrier) board development and reduce your time Time-to-Market with an average of 50% .

The latest type processors, embedded in the right infrastructure can directly be used in your process development. The TrustSoM is verified and validated and therefor will reduce costs of electronics with even more than 50%. No time and money is lost when using for a new product.

Through our Scalys SoM, you will be able to quickly and easily use the latest technology in your new design and allows you to fully concentrate on your core competencies.

CPU AND PERIPHERALS

4 GiB DDR4 (ECC)		ESDHC1 (HS400, 150MHz, 4bit)
		ESDHC2 (HS400, 150MHz, 4bit)
TPM V2.0 (SLM 9670)		(e)DP HBR2@5.4G 4Kp60@8bit
		SPI 8bit, 2xCS
RTC (PCB85063TP)	LS1028A	CAN 2.0 B
		USB (2x) 2.0/3.0
		I2C (2x)
Battery backed tamper		GPIO (10x)
		UART (2x)
		UART (2x)
Power and control		SerDes: *check DS for combinations* 10G-QXGMII (4x 2.5G), SGMII (2.5 G), PCIe3 x1 or x2
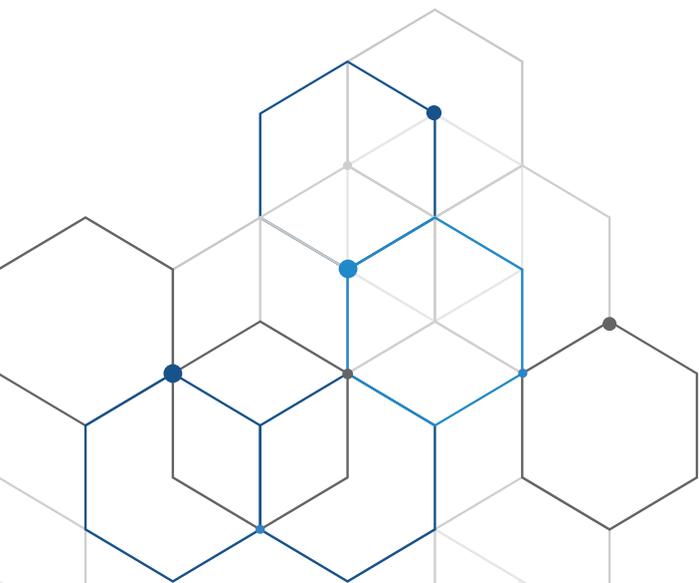
Scalys

We create high-grade communication solutions putting cybersecurity first. Our built-in products are core for enterprise-level sensor gateways, communications hubs, and secure IoT edge devices.

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