TrustSoM LS1046A

TrustSoM is part of the Scalys TrustBox solutions (a portfolio of hardened systems and communication devices and solutions). Based on layerscape® LS1046A family. TrustSoM moudles 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.
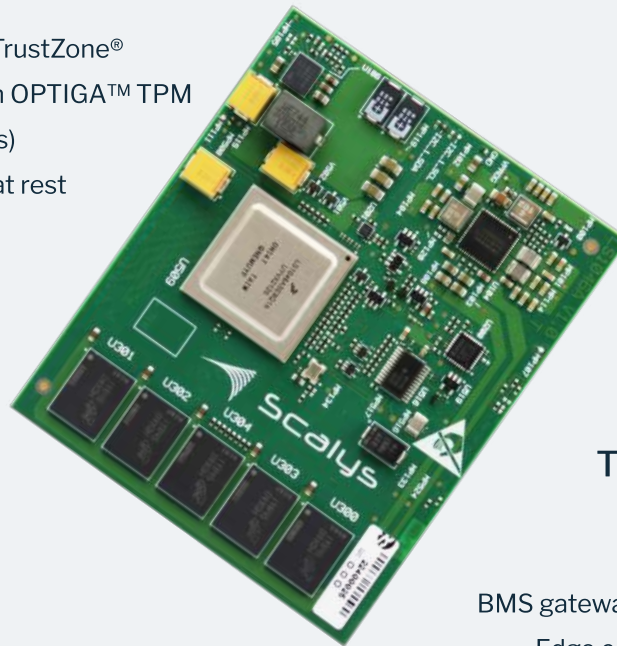
SECURITY

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, at rest (Confidential Computing)

KEY BENEFITS

Optimized Price-Performance

Secure foundation

Longevity support (10+ years)

Industrial temperature grade

Azure IoT Edge certified

TECHNICAL FEATURES

NXP LS1046A SOC

armV8 A72 quad core

1.8 Ghz / 8GiB

Infineon OPTIGATM TPM (SLM9670)

Compact 90x75mm

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 LSL1046A leverages NXP's Trust Architecture, delivering a strong security foundation for devices deploying containers and microservices.

A sample of a Scalys Systems on Module with a customized carrier
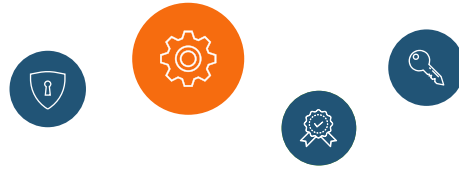
CUSTOM DESIGN SERVICES

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

	LS1046A	
8 GiB DDR4 (1 GiB ECC)		CONSTA
		SPI
		UART (2x)
64 MBit Parallel NOR Flash		DEBUG
		GPIO
		SerDes
TPM V2.0 (SLM 9670)		EMI (2x)
		Ethernet (2x)
		USB 2.0 (3x)
		USB 3.0 (3x)
Temp Monitor		SDHC
		I2C (3x)
		TAMPER
Power and control		JTAG
		VBAT
		PROG SFP V

Scalys
Security at the edge

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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