

TrustSoM LS1028A

TrustSoM is part of the Scalys TrustBox solutions (a portfolio of hardened hardware communication devices and solutions). TrustSoM modules offer flexibility and scalability for numerous IoT applications. Featuring end-to-end security by combining a cutting-edge hardened hardware platform and easy to deploy software-defined implementation.



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 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

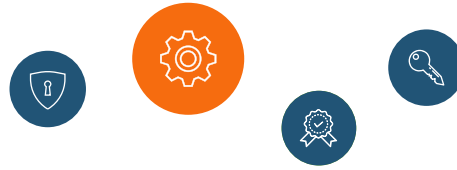


SECURITY IS CRUCIAL FOR TRUST AND INTEGRITY

The combination of NXP's Trust Architecture, ARM® TrustZone® and the features of the Infineon OPTIGA™ TPM chip establish and maintain a strong security foundation for devices deploying containers and microservices.



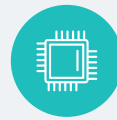
A sample of a Scaly Systems on Module with a customized carrier



CUSTOM DESIGN SERVICES

We can support you with a custom (carrier) board development. Scaly has the expertise and the IP available to design your cost-effective integrated solution.

This allows you to fully concentrate on your core competencies and the application you want to deploy on this platform.



CPU AND PERIPHERALS

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



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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