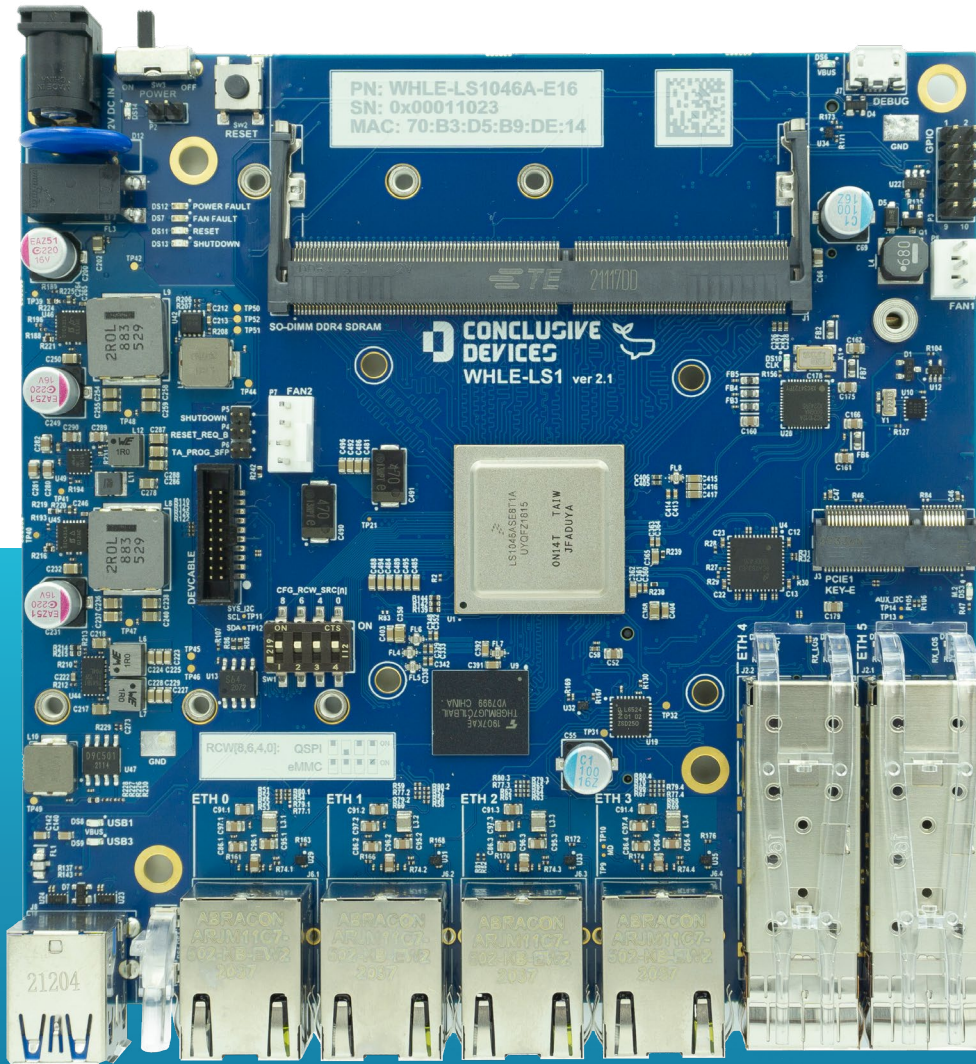# WHLE-LS1
High Performance
Single Board Computer

WHLE-LS1

- NXP Layerscape® LS1 SoC Variants: LS1026A/LS1046A/LS1048A/LS1088A
- DDR4 SODIMM with ECC
- Robust Connectivity: 4× 1 Gbit/s Ethernet, 2× 10 Gbit/s SFP+, 3x PCIe M.2
- Over 45,000 CoreMark® Performance with SmartNIC Capabilities

WHLE-LS1 High Performance Single Board Computer

WHLE-LS1 Specifications	
SoC	NXP Layerscape® SoC variants: LS1026, 2 core Arm® Cortex®-A72 1.8 GHz CPU with DPAA LS1046, 4 core Arm® Cortex®-A72 1.8 GHz CPU with DPAA LS1048, 4 core Arm® Cortex®-A53 1.4 GHz CPU with DPAA2 LS1088, 8 core Arm® Cortex®-A53 1.6 GHz CPU with DPAA2
Memory	1x SO-DIMM socket supporting up to 32 GB DDR4 SDRAM with ECC (up to 2100 MT/s)
Ethernet	4x 1 Gbit/s RJ45 2x 10 Gbit/s SFP+
Mass storage	4-64 GB eMMC 16 MB QSPI NOR Flash 8 KB EEPROM
PCIe	M.2 Key-M 2280 PCIe 3.0 x2 NVMe M.2 Key-M 2280 PCIe 3.0 x1 NVMe M.2 Key-E 2230 PCIe 3.0 x1 WiFi/BT with USB 2.0, I2C, UART
USB	1x or 2x USB A 3.0
Debug	Conclusive Developer Cable connector providing access to: - System UART - JTAG port - System I2C bus 1x USB Micro-B 2.0 console port (System UART)
Software support	Linux 6.5 & 6.1 U-Boot UEFI-EDK2 Yocto Buildroot Ubuntu FreeBSD (on request)
Additional features	RTC with CR2032 back-up battery Boot source selector DIP switch 2x bi-color status LED Two channel fan controller with 3 pin and 4 pin fan connectors 6x GPIO (3.3 V) External I2C (3.3 V)
Power supply	12 V DC, 5 A, 2.5 x 5.5 mm barrel connector
Dimensions	130 x 130 mm

About Conclusive Engineering

We provide reliable development and consulting services for various embedded platforms, assisting enterprises and manufacturing companies in optimizing their processes through tailored embedded system services, products, and hardware solutions.

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