

SINGLE BOARD COMPUTER

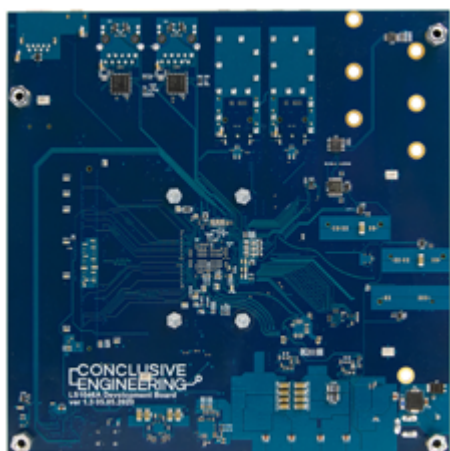
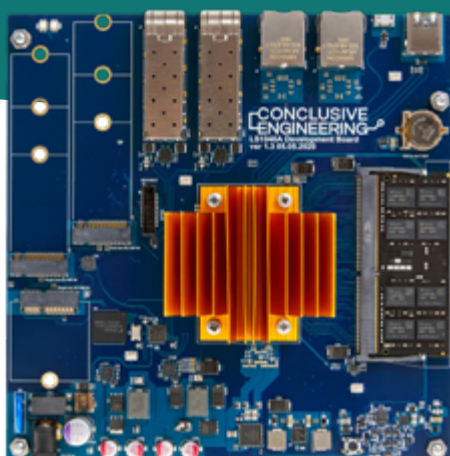
WHLE-LS1

Conclusive Engineering

The Conclusive Engineering **WHLE-LS1 series** are high-performance single board computers powered by the NXP QorIQ® Layerscape processors capable of delivering more than 32000 CoreMark® performance.

Layerscape series processors, built on Arm® core technology, extend performance to the smallest form factor - from power - constrained networking and industrial applications to new virtualized networks and embedded systems requiring an advanced data path and network peripheral interfaces.

Find more: <https://conclusive.pl/WHLE-LS1>



Technical details

SoC	NXP Layerscape LS1xxxA SoC (2, 4 or 8 cores) up to 1.8GHz
CPU Architecture	- ARM Cortex-A53 - ARM Cortex-A72
Memory	1x SO-DIMM socket supporting DDR4 SDRAM (x72) with ECC
Ethernet	- 2x 10/100/1000Mbit/s Ethernet (RJ45) - 2x 1/10Gbit/s Ethernet (SFP+)
Mass storage	- 4-64GB eMMC - 8KB EEPROM
PCIe	- 1x M.2 Type M PCIe 3.0 x2 - 1x M.2 Type M PCIe 3.0 x1 - 1x M.2 Type E PCIe 3.0 x1
USB	- 1x USB A 3.0 (host mode) - 1x USB Micro-B 2.0 (device mode)
Debug	Conclusive Developer Cable connector providing access to: - System UART - JTAG port - System I2C bus
Software support	- U-Boot - UEFI EDK2 - Linux 4.14-5.6 (Buildroot and Yocto) - FreeBSD 13 (on request)
Additional features	- RTC with external back-up battery - Power supply current monitor - Reset button - 2x two-color status LED
Power supply	12V DC, 7.5A, barrel connector
Dimensions	170x170mm (Mini-ITX)

Ordering information

Part number	SoC	Processor core	Packet processing engine	Max CPU clock
WHLE-LS1026A	NXP LS1026A	2x ARM Cortex-A72	DPAA	1.8GHz
WHLE-LS1046A	NXP LS1046A	4x ARM Cortex-A72	DPAA	1.8GHz
WHLE-LS1048A	NXP LS1048A	4x ARM Cortex-A53	DPAA2	1.6GHz
WHLE-LS1088A	NXP LS1088A	8x ARM Cortex-A53	DPAA2	1.6GHz

Options

eMMC size				
4GB	8GB	16GB	32GB	64GB

Colophon



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