

HPC-LX2

System on Module



HPC-LX2 key features:

- NXP Layerscape® LX2 SoC variants: LX2160A/LX2120A/LX2080A
- Up to 256GB DDR4 DIMM with ECC
- 10/25/40/100 Gbit/s Ethernet connectivity
- Over 224,000 CoreMark® Performance

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.

For more information contact:
sales@conclusive.pl

HPC-LX2 Specifications

SoC	NXP Layerscape® LX2 SoC variants: - LX2080A, 8 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2 - LX2120A, 12 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2 - LX2160A, 16 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2
Memory	4x DDR4 DIMM socket supporting up to 256 GB DDR4 SDRAM with ECC (up to 3200 MT/s)
Ethernet	8x 25 Gbit/s SerDes lanes capable of: - up to 2x 100 Gbit/s or 2x 40 Gbit/s - up to 6x 25 Gbit/s - up to 8x 10 Gbit/s 1x 1 Gbit/s with on-board 1000BASE-T PHY
PCIe	32x PCIe Gen 3 lanes 1x PCIe Gen 3 lane for BMC
SATA	2x 6 Gbit/s SATA 3.0 ports
USB	4x USB 3.0 4x USB 2.0
Additional features	2x UART 12x GPIO 2x SPI 2x I2C SMBus, IPMB 16MB QSPI flash for firmware
Security	TPM 2.0 Secure boot
Debug	Conclusive Developer Cable connector providing access to: - System UART - JTAG port - System I2C bus
Software support	Linux 6.1 & 6.5 U-Boot Yocto Buildroot Ubuntu FreeBSD (on request)
Power supply	12 V DC
Dimensions	160 x 160 mm
Form factor	COM-HPC Server variant D

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