

HPC-LX2

System on Module



HPC-LX2

- 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

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HPC-LX2 key features:

- **Form factor: COM-HPC Server variant D**
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- **Up to 256GB DDR4 DIMM with ECC**
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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	<p>NXP Layerscape® LX2 SoC variants:</p> <ul style="list-style-type: none"> - 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	<p>8x 25 Gbit/s SerDes lanes capable of:</p> <ul style="list-style-type: none"> - up to 2x 100 Gbit/s or 2x 40 Gbit/s - up to 6x 25 Gbit/s - up to 8x 10 Gbit/s <p>1x 1 Gbit/s with on-board 1000BASE-T PHY</p>
PCIe	<p>32x PCIe Gen 3 lanes</p> <p>1x PCIe Gen 3 lane for BMC</p>
SATA	2x 6 Gbit/s SATA 3.0 ports
USB	<p>4x USB 3.0</p> <p>4x USB 2.0</p>
Additional features	<p>2x UART</p> <p>12x GPIO</p> <p>2x SPI</p> <p>2x I2C</p> <p>SMBus, IPMB</p> <p>16MB QSPI flash for firmware</p>
Security	<p>TPM 2.0</p> <p>Secure boot</p>
Debug	<p>Conclusive Developer Cable connector providing access to:</p> <ul style="list-style-type: none"> - System UART - JTAG port - System I2C bus
Software support	<p>Linux 6.1 & 6.5</p> <p>U-Boot</p> <p>Yocto</p> <p>Buildroot</p> <p>Ubuntu</p> <p>FreeBSD (on request)</p>
Power supply	12 V DC
Dimensions	160 x 160 mm
Form factor	COM-HPC Server variant D