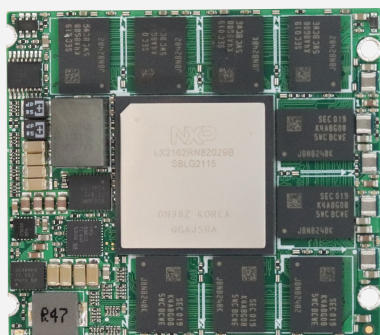


LX2-Lite SOM

8/12/16 x Arm Cortex-A72, up to 2GHz

NXP LX2162A Processor

System on Module



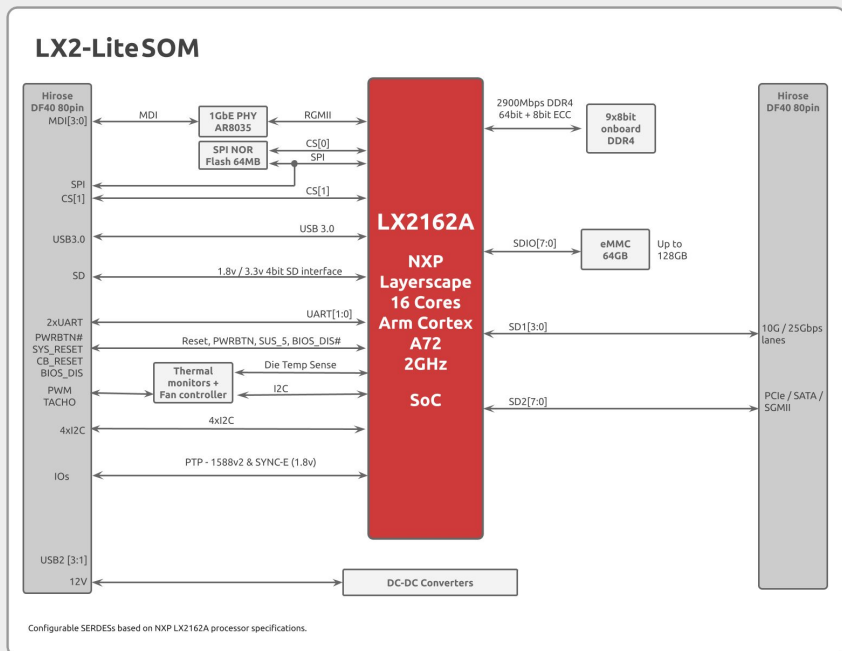
- Up to 100GbE
- Up to 32GB DDR4 64 bit with ECC
- Ideal for space constrained designs at only 58 x 48 mm



| | | Layerscape LX2082A SOM | Layerscape LX2122A SOM | Layerscape LX2162A SOM |
|--------------|--------------------------|---|---|---|
| CPU Details | CPU Name | NXP Layerscape LX2082A | NXP Layerscape LX2122A | NXP Layerscape LX2162A |
| | CPU Type | 8 x Cortex A72 | 12 x Cortex A72 | 16 x Cortex A72 |
| | CPU Speed | 2.0GHz Commercial | 2.0GHz Commercial | 2.0GHz Commercial |
| RAM | Memory & Storage | Single channel up to 32GB DDR4* | Single channel up to 32GB DDR4* | Single channel up to 32GB DDR4* |
| | Internal Storage | 8GB eMMC 8Mb SPI | 8GB eMMC 8Mb SPI | 8GB eMMC 8Mb SPI |
| | External Storage Support | SD PCIe-SSD | SD PCIe-SSD | SD PCIe-SSD |
| | Networking | Ethernet | Ethernet | Ethernet |
| Connectivity | USB 3.0 | 1 | 1 | 1 |
| | PCIe | 8 (Gen 3.0 - 2 controllers)** | 8 (Gen 3.0 - 2 controllers)** | 8 (Gen 3.0 - 2 controllers)** |
| | I2C | 4 | 4 | 4 |
| | UART | 2 | 2 | 2 |
| | GPIO | ✓ | ✓ | ✓ |
| | SATA | 4 (Gen 3.0)** | 4 (Gen 3.0)** | 4 (Gen 3.0)** |
| | SD/MMC | 1 | 1 | 1 |
| | JTAG | JTAG Header | JTAG Header | JTAG Header |
| OS Support | Embedded Linux | Linux DPDK UEFI NXP Layerscape Secure Boot | Linux DPDK UEFI NXP Layerscape Secure Boot | Linux DPDK UEFI NXP Layerscape Secure Boot |
| | Physical | Size | 55 x 48 mm | 55 x 48 mm |
| Power | Interface | 3 x Hirose DF40 connectors | 3 x Hirose DF40 connectors | 3 x Hirose DF40 connectors |
| | Main Voltage | 12V | 12V | 12V |
| Environment | I/O Voltage | 3.3V/1.8V | 3.3V/1.8V | 3.3V/1.8V |
| | Temperature | Commercial: 0°C to 70°C | Commercial: 0°C to 70°C | Commercial: 0°C to 70°C |
| | Humidity | Humidity (non-condensing): 10% – 90% | Humidity (non-condensing): 10% – 90% | Humidity (non-condensing): 10% – 90% |

(*) Contact us for Dual channel 64GB DDR4 support.

(**) Configurable SD2 SERDESs based on NXP LX2162A processor specifications.



Ordering Information

Available on Shop

| SKU | Description |
|-----|-------------|
| | |
| | |

- To choose your ideal configuration see our [Product Configurator Tool](#)

Accessories:

| SKU | Description |
|-----|-------------|
| | |

Kits

| SKU | Description |
|-----|-------------|
| | |
| | |

For more information about the LX2162 SOM Software/Hardware visit our:

[Developer Center](#)