

# LX2-Lite SOM

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

# NXP LX2162A Processor

## System on Module

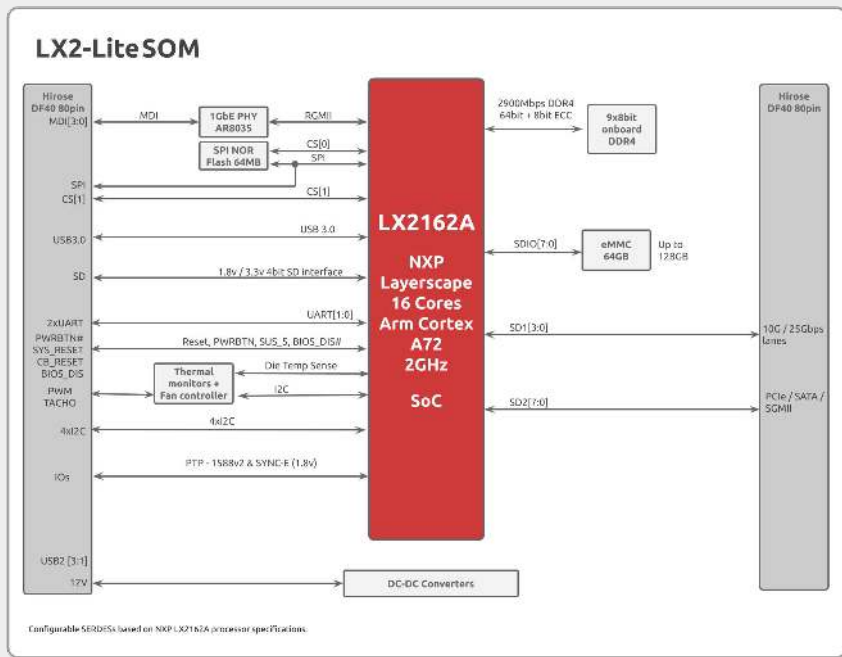


- Up to 100GbE
- Up to 16GB DDR4 with ECC
- Ideal for space constrained designs at only 58 x 48 mm



		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 16GB DDR4*	Single channel Up to 16GB DDR4*	Single channel DDR4-2900 up to 16GB with ECC
	Internal Storage	8GB eMMC 8MB SPI	8GB eMMC 8MB SPI	Up to 128GB eMMC 64MB SPI
	External Storage Support	SD PCIe-SSD	SD PCIe-SSD	SD PCIe-SSD
Networking	Ethernet	4 x 25 GbE or 1 x 100 GbE 4 x 10GbE w/ built in PHY 8 x 1GbE** Sync-E, 1588-V2	4 x 25 GbE or 1 x 100 GbE 4 x 10GbE w/ built in PHY 8 x 1GbE** Sync-E, 1588-V2	4 x 25 GbE or 1 x 100 GbE 4 x 10GbE w/ built in PHY 8 x 1GbE** Sync-E, 1588-V2
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	55 x 48 mm
	Interface	3 x Hirose DF40 connectors	3 x Hirose DF40 connectors	3 x Hirose DF40 connectors
Power	Main Voltage	12V	12V	12V
	I/O Voltage	3.3V/1.8V	3.3V/1.8V	3.3V/1.8V
Environment	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%

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



## Ordering Information

<b>Available on Shop</b>	
<b>Buy Now</b>	Description
	LX2162A SOM   8GB RAM   8GB eMMC   Commercial Temp

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

<b>Accessories:</b>	
SKU	Description
<a href="#">HS00025K</a>	LX2162A SOM Heatsink
<a href="#">HS00026K</a>	LX2162A SOM Heatsink and fan

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

**Developer Center**