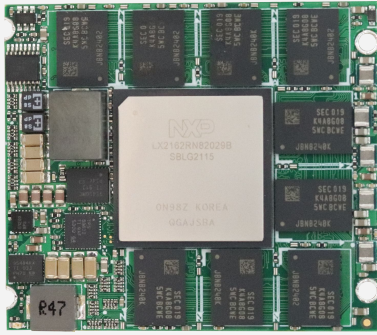


LX2162A SOM

16 Cortex-A72 CPU cores, up to 2GHz

NXP LX2162A Processor System on Module



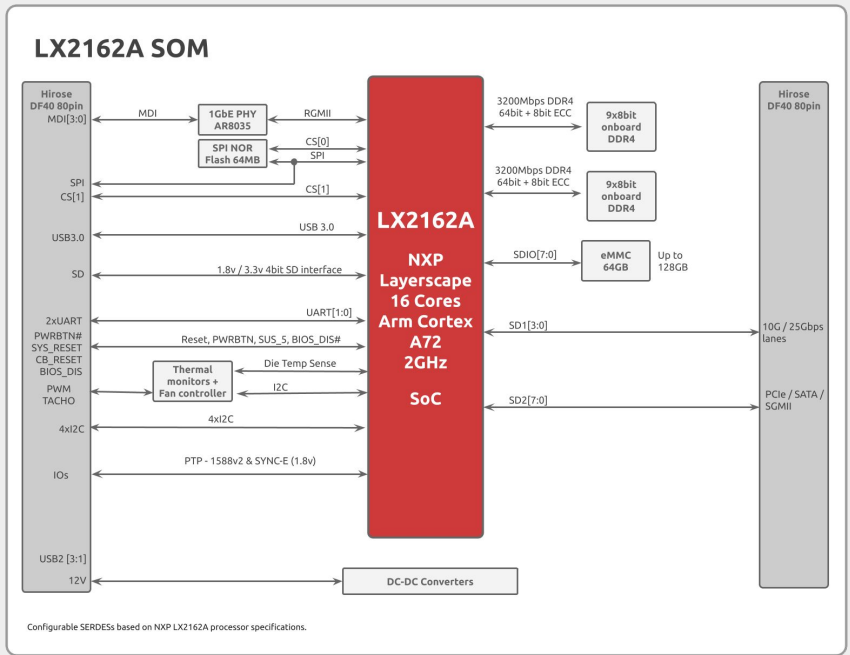
- Up to 100GbE
- Up to 32GB DDR4 64 bit with ECC
- Ideal for space constrained designs at only 58 x 48 mm



		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 4 x 25 GbE or 1 x 100 GbE 4 x 10GbE w/ built in PHY 8 x 1GbE** Sync-E, 1588-V2	Ethernet 4 x 25 GbE or 1 x 100 GbE 4 x 10GbE w/ built in PHY 8 x 1GbE** Sync-E, 1588-V2	Ethernet 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 Interface	55 x 48 mm 3 x Hirose DF40 connectors	55 x 48 mm 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%

(*) 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