LX2160A COM

COM Express Type 7, 8/12/16 x Arm Cortex-A72, Up to 2.2GHz

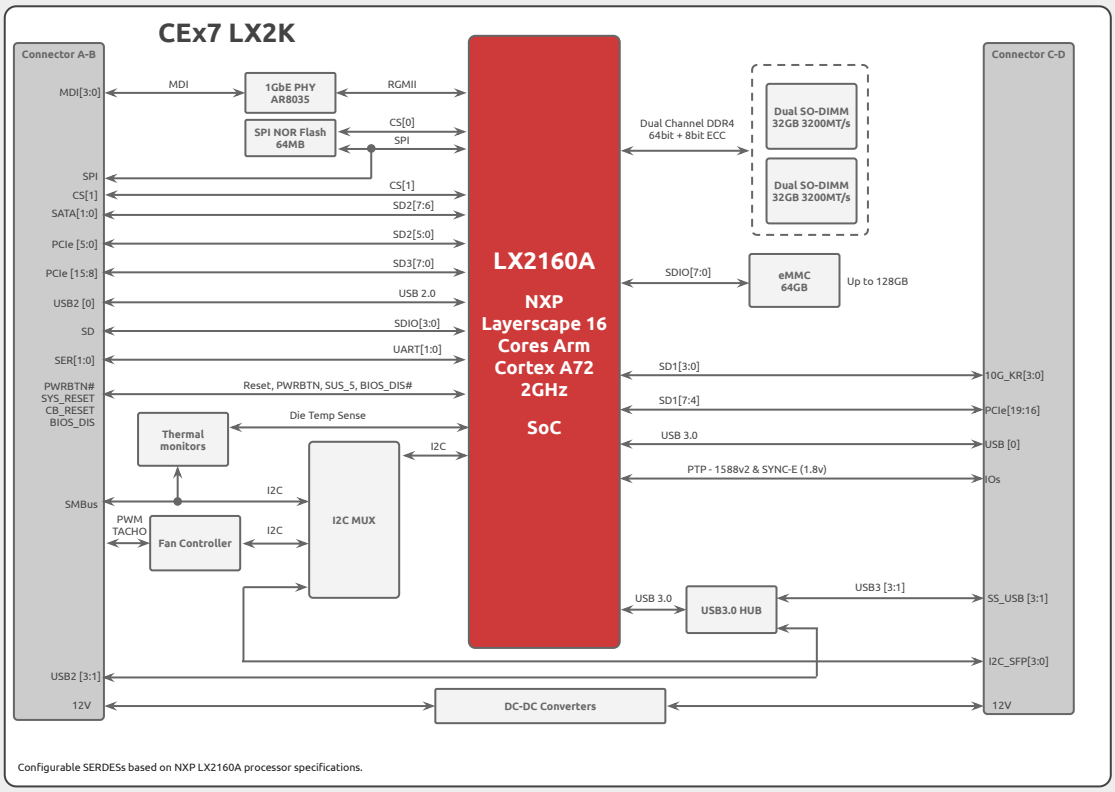
NXP LX2160A Layerscape COM Express Type 7

- Up to 100GbE (4 x SFP28)
- Up to 64GB DDR4 64 bit dual-channel
- Full virtualization support
- 10,000RPM PWM controlled FAN & Heatsink

debian ubuntu

		LX2160A	LX2120A	LX2080A
CPU Details	CPU Name	NXP Layerscape LX2160A	NXP Layerscape LX2120A	NXP Layerscape LX2080A
	CPU Type	16 x Cortex A72	12 x Cortex A72	8 x Cortex A72
	CPU Speed	2.0GHz Commercial	2.0GHz Commercial	2.0GHz Commercial
RAM	Memory & Storage	Dual channel Up to 64GB DDR4	Dual channel Up to 64GB DDR4	Dual channel Up to 64GB DDR4
	Internal Storage	64GB eMMC 64MB SPI	64GB eMMC 64MB SPI	64GB eMMC 64MB SPI
	External Storage Support	NOR-Flash SD PCIe-SSD	NOR-Flash SD PCIe-SSD	NOR-Flash SD PCIe-SSD
Networking	Ethernet	4 x 25 GbE or 1 x 100 GbE* 4 x 10GbE w/built in PHY Sync-E, 1588-V2	4 x 25 GbE or 4 x 10GbE w/built in PHY Sync-E, 1588-V2	4 x 25 GbE or 4 x 10GbE w/built in PHY Sync-E, 1588-V2
Connectivity	USB 3.0	4	4	4
	PCIe	18 (Gen 3.0 - 5 controllers)*	18 (Gen 3.0 - 5 controllers)*	18 (Gen 3.0 - 5 controllers)*
	I2C	6	6	6
	SPI	1	1	1
	UART	2	2	2
	GPIO	✓	✓	✓
	SATA	2 (Gen 3.0)*	2 (Gen 3.0)*	2 (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	125 x 95 mm COM Express Type 7	125 x 95 mm COM Express Type 7	125 x 95 mm COM Express Type 7
	Interface	COM Express Type 7 Headers	COM Express Type 7 Headers	COM Express Type 7 Headers
	Package Dimensions	140x100x40mm	140x100x40mm	140x100x40mm
Power	Main Voltage	12V	12V	12V
	I/O Voltage	3.3V	3.3V	3.3V
Environment	Temperature	Commercial: 0°C to 70°C Industrial: -40°C to 85°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C
	Humidity	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%
	Green Compliance	Halogen Free	Halogen Free	Halogen Free

(*) Configurable SERDESs based on NXP LX2160A processor specifications.



Configurable SERDESs based on NXP LX2160A processor specifications.

Ordering Information

	Description
Contact Sales	

Accessories:

SKU	Description
SO-DIMM216	Kingston HyperX 32GB SO-DIMM DDR4 (2 x 16GB)
MSD016B	Micro SD 16GB

Carrier Boards

	Description
Buy Now	HoneyComb LX2K | No RAM | 64GB eMMC | Com.Temp | R07
	ClearFog CX LX2K | No RAM | 64GB eMMC | Com.Temp | R07

For more information about the LX2160A COM Software/Hardware visit our:

Developer Center