

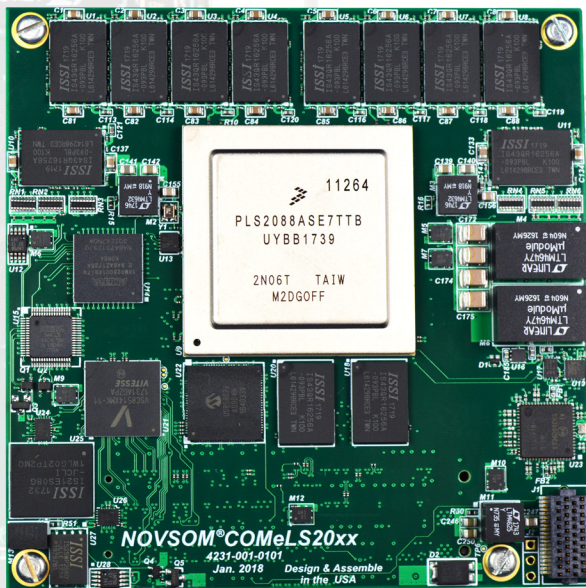
NOVSOM® COMe7LS20xx: Arm® based COM Express® Type 7 in a Compact Form Factor for Fog/Edge Compute Node with built-in L2/L3 Switch

NOVSOM® COMe7LS20 xx System-On-Module (SoM) complies with COM Express Type 7 specifications. It features NXP QorIQ® Layerscape 2088A SoC with integrated octal 64-bit Arm® Cortex®-A72 cores with packet processing acceleration and 16 high-speed channels. It brings to customers all the benefits of the SoC while accelerating the design of an application board by eliminating the need to develop the DDR interface, boot devices, clocks power management solutions and interfaces PHYs. The use of NOVSOM® COMe7LS20xx provides users with a proven industry standard small form factor SoM allowing engineers to focus their design efforts on the required peripherals for their application.

Applications

- Industry 4.0 Fog/Edge compute node
- SDN/OpenFlow™ white box switching
- Network function virtualization (NFV) solutions
- Video Recorders, Surveillance
- Wireless cell site routing
- Security and Encryption

NOVSOM® COMe7LS20XX



NOVSOM® COMe7LS20xx

Kit Contents:

Hardware

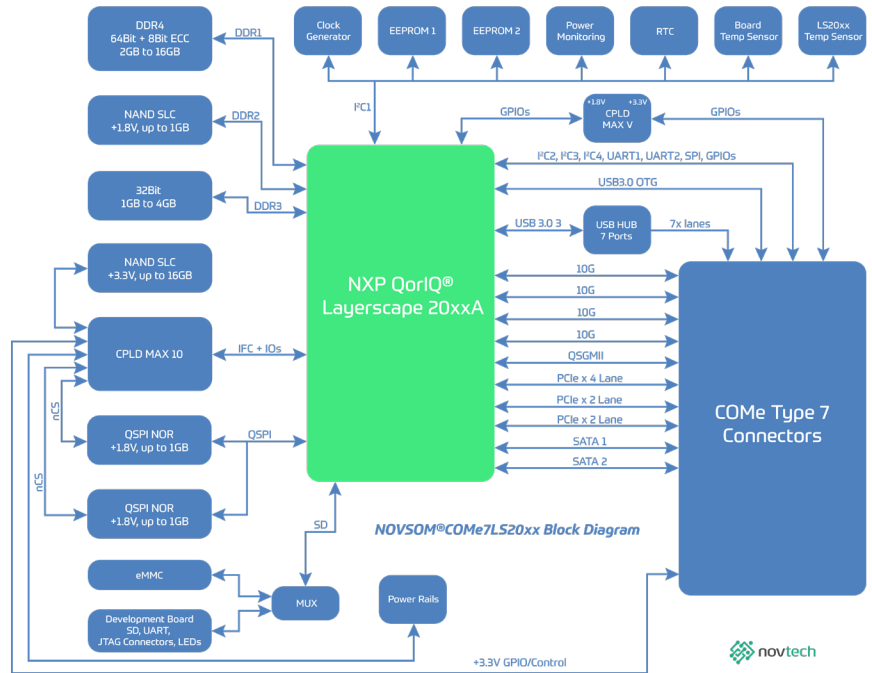
- NOVSOM® COMe7LS20xx
- Power supply

Software and documentation

- Linux board support package (BSP) including NXP Layerscape drivers for all Type 7 defined interfaces
- Quick Start Guide
- Link to the board portal with manuals, documentation, Virtual Machine and tools

Key Features

- COM Express® Type 7 Compact form-factor
 - full function pin out (except NC-SI)
 - 16 SerDes lanes for Ethernet, PCIe and SATA I/O
- NXP LS2088A/LS2048A with AIOP or NXP LS2084A/LS2044A (no AIOP)
 - 4 or 8 ARMv8 Cortex®-A72 cores @ up to 2.0 GHz
 - DPAA2 data path acceleration with L2 switching
 - Networking and Crypto hardware offload
- Two 64b DDR4 banks (max. 16 GB each)
- 32b data path DDR4 bank (max. 2GB), supporting AIOP
- Reconfigurable SerDes for Ethernet, PCIe and SATA
 - 4× 10G KR + 4× SGMII + 1× QSGMII Ethernet
 - 4× PCIe 3.0 controllers
 - 2× SATA ports
- Up to 7× USB3.0 ports
- Boot from eMMC (max 64 GB) , QSPI and base board QSPI
- Support for secondary and recovery boot
- Industrial operating temperature: -40°C to +85°C



Configuration Options

- Processor : NXP LS2088A/LS2048A with AIOP or NXP LS2084A/LS2044A (no AIOP)
- RAM: Up to 16GB per channel of DDR4 and ECC
- Storage: eMMC up to 64GB, NAND up to 8GB, QSPI x2, SATA x2
- Interfaces: CAN, SD
- Wireless: via USB 3.0 or PCIe
- Temperature: industrial and automotive
- OS: Linux

Customization Services

NovTech Design Services can help with customized production-ready systems with the following services:

- Custom baseboard design or a single board solution
- Optimize Linux drivers and software
- Customize enclosure to match environmental requirements
- Help with regulatory requirements



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The COM Express® specification defines a family of Small Form Factor (SFF) and Computer On Module (COM) single board computers appropriate for a wide range of commercial and mil/aero applications which provides the highest performance of the many small form factor standards and products available. NOVOSOM®COMe7LS20xx is the first COM Express® Type 7 System on Module based on Arm® Architecture.

Ordering Information

Contact NovTech for customization, pricing and availability

**Chat live and in real time on
arrow.com or connect with a
Customer Support team:**

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