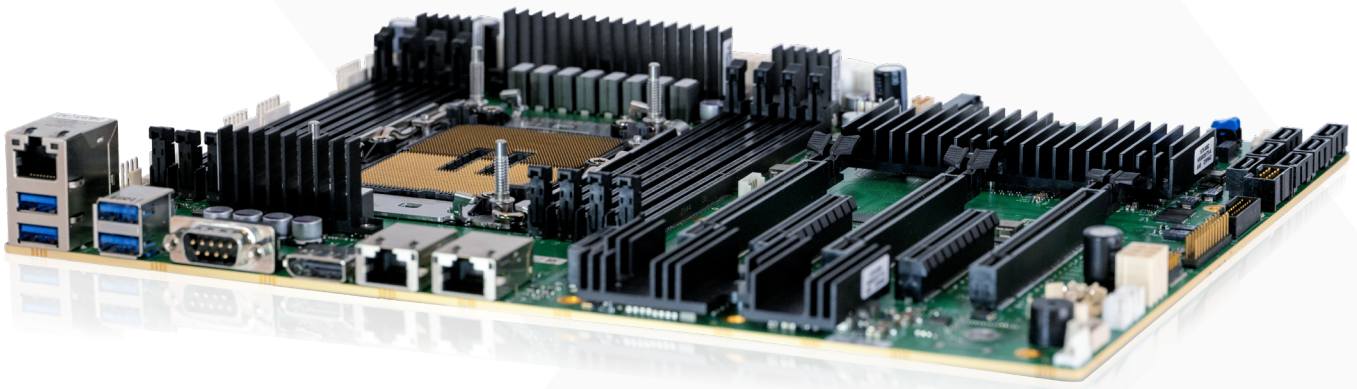


# K9051-C741 ATX

## Server Class



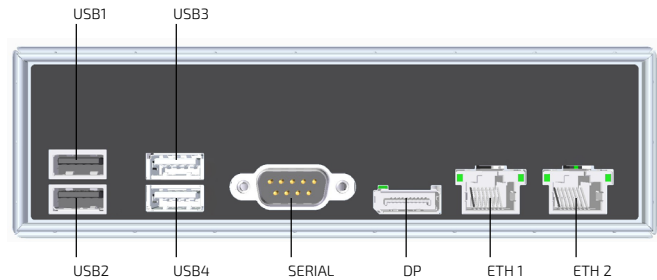
### Intel® 4th/5th Generation Xeon® Scalable Processor(SP) with Intel® C741 chipset

- Up to 64 cores with maximum TDP 350W
- DDR5 memory up to 5600 MHz RDIMM, up to 768 GByte
- 5x PCIe Gen 5 expansion slots
- Dual LAN Intel® X710 10 GbE including teaming

The server-class K9051 ATX is paired with the Intel® C741 chipset and supports Intel® 4th/5th Gen Intel® Xeon® scalable processors with up to 64 cores. With memory density up to 768 GByte and 5 PCIe Gen 5 expansion slots, today's most demanding applications including AI, imaging, sequencing and industrial pro-

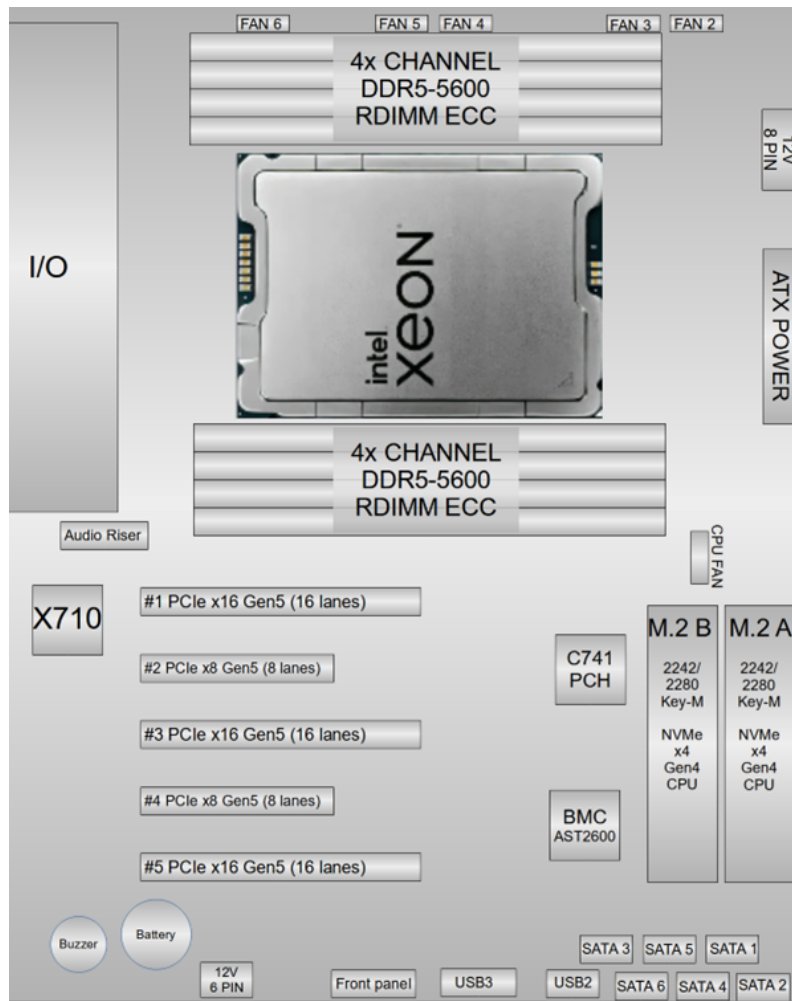
cessing are possible. Supports board management and monitoring via ASPEED A2600 using OpenBMC. The K9051 is designed for continuous 24/7 operation for 10 years in demanding environments.

- ▶ Intel® 4th/5th Generation Xeon® scalable processor
- ▶ Intel® C741 Chipset
- ▶ 8x DDR5 5600 MT/s RDIMM Independent Channels
- ▶ 3x PCIe Gen5 x16 slots and 2 x PCIe Gen5 x8 slots
- ▶ 2x 10GBASE-T RJ45 Ethernet ports
- ▶ 6x SATA 6G incl. RAID support
- ▶ 4x Type A connectors USB 3.2 Gen1 (5Gbps)
- ▶ DisplayPort connector via AST2600 video output
- ▶ TPM version 2.0
- ▶ 10-year extended supply availability



## Technical Information

<b>SYSTEM</b>	<b>PROCESSOR</b> <b>CHIPSET</b> <b>MEMORY</b>	Intel® 4th/5th Gen Xeon® SP up to 64 cores Socket LGA4677 Up to 350W TDP Intel® C741 8x RDIMM Sockets DDR5-5600, max. 768 GBytes, 8x Independent Channels registered, ECC
<b>VIDEO</b>	<b>GRAPHICS</b>	1 DisplayPort 1.1a/1920x1200 32bpp@60Hz ASPEED AS2600 (via OpenBMC)
<b>AUDIO – OPTIONAL ADD-IN CARD</b>	<b>AUDIO CODEC</b> <b>AUDIO INTERFACE</b>	Tempo Semiconductor 92HD68D 8-Channel (HD), line-in, line-out, mic in, 3.5mm jack, 9-pin header
<b>NETWORK CONNECTION</b>	<b>ETHERNET 1/2</b>	Intel® X710 with dual 100/1000/10000 MBit/s PXE Support & Teaming
<b>PERIPHERAL</b>	<b>USB</b> <b>SERIAL PORT</b>	4x USB 3.1 Gen 1 (rear I/O, Type-A) 2x USB 3.1 Gen 1 (by header) 1x RS232 (rear I/O, DB9 connector)
<b>STORAGE &amp; EXPANSION</b>	<b>SATA</b> <b>M.2 PCIe/NVMe</b> <b>PCIe SLOTS</b>	6x SATA III Interface (up to 6GBit/s), NCQ, AHCI, RAID 0/1/5/10 2x M.2 2280/2242 (Key-M, PCIe/NVMe Gen4 x4 SSD modules) 3x 16 lanes Gen5 2x 8 lanes Gen5 ("closed slot")
<b>POWER</b>	<b>CONNECTOR</b>	ATX (Multirail) 24-pin, 2x 8-pin, 1x 6-pin sockets
<b>FIRMWARE</b>	<b>BIOS</b>  <b>WATCHDOG</b> <b>REAL TIME CLOCK</b> <b>TPM</b>	AMI Aptio 5.x (UEFI) BIOS Modified and adapted by Kontron; Recovery BIOS, SM-BIOS (DMI), BIOS and CPU Microcode Update, Quick Boot, Logo Boot, Quiet Boot, Plug & Play, Automatic DRAM and PCIe Configuration, BIOS Support for S.M.A.R.T., Advanced Power Management, ACPI S3/S4, Wake on time from S5. HW No legacy OS support, no MBR support (UEFI only) Onboard via BMC Integrated TPM V2.0
<b>SYSTEM CONTROL</b>	<b>FP HEADER</b>  <b>FAN SECURITY</b>	1x Header for Reset button, HDD LED & External Speaker, Power button, Power LED 6x 6-pin headers (support for 3/4-pin fans), controlled via BMC Secure Boot, Recovery BIOS, BIOS Password, Boot Sequence Control, Write Protection for Flash BIOS, Trusted Platform Module (TPM)
<b>SOFTWARE</b>	<b>OS SUPPORT</b>	Ubuntu 22.04 Windows Server 2022
<b>MECHANICAL ENVIRONMENTAL CERTIFICATION</b>	<b>DIMENSIONS (LxW)</b> <b>OPERATING TEMPERATURE</b> <b>EMC &amp; SAFETY</b>	ATX: 9.6"x12" (244x305 mm) 0 °C - 55 °C (select SKUs and configurations) FCC Part 15 Class A, ICES-003 Class A, cCSAus IEC62368-1



## Ordering Information

MODEL	PART NO.	DESCRIPTION
K9051-C741 ATX	1070-9666	Intel® 4th/5th Generation Xeon SP with Intel® C741 Chipset
ACCESSORIES	TBD	Audio Feature Riser Board

## Your Contact

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