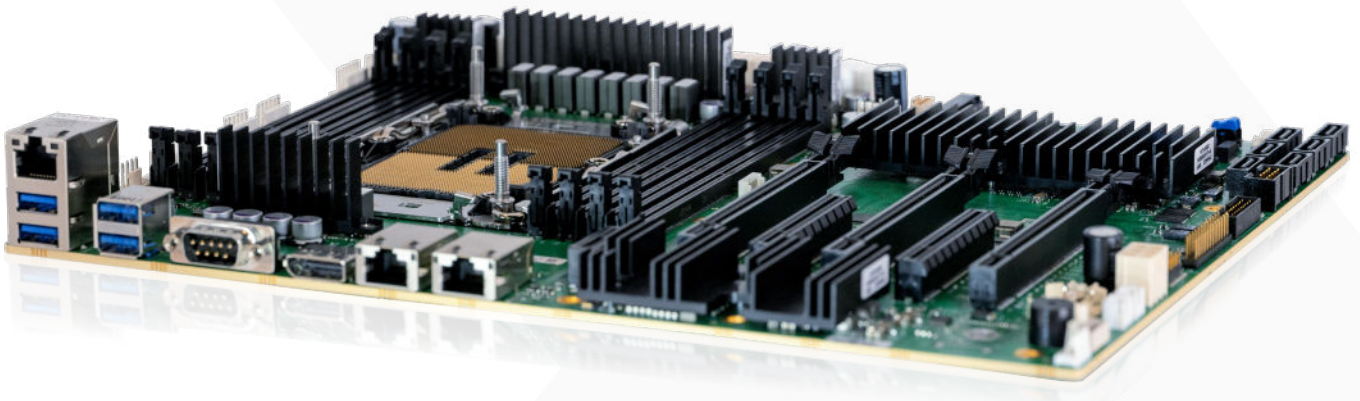


# K9051-C741 ATX

## Industrial Server Class



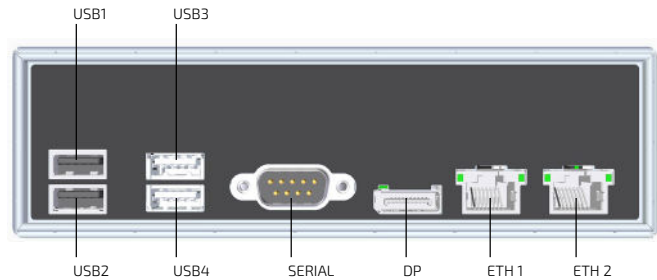
### Intel® 4th/5th Generation Xeon® Scalable Processor(SP) with Intel® C741 chipset

- 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-

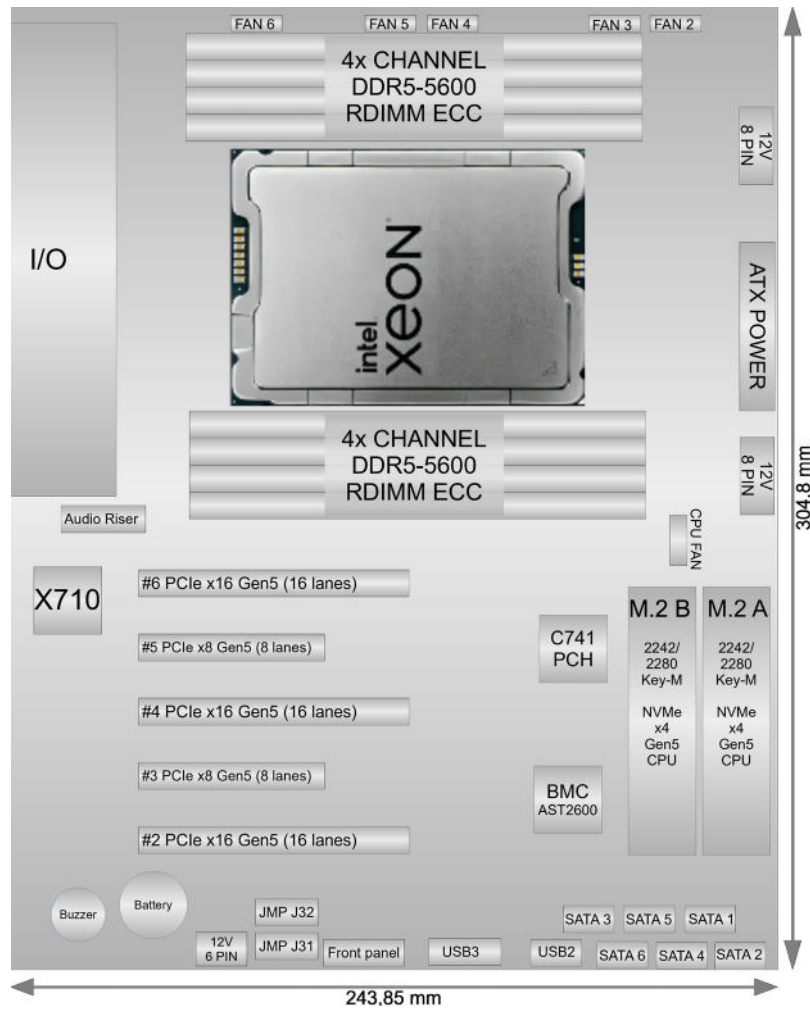
cessing are possible. Supports board management and monitoring via ASPEED A2600 using OpenBMC. The K9051 is designed for continuous 24/7 operation for 10 years in demanding environments.

- ▶ 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
- ▶ Discrete Infineon TPM version 2.0



## 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
<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, Intel VROC SATA RAID 0/1/5/10 2x M.2 2280/2242 (Key-M, PCIe/NVMe Gen5 x4 SSD modules), Intel VMD NVMe RAID 0/1 (license required) 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, Wake on time from S5. HW No legacy OS support, no MBR support (UEFI only) Onboard via BMC Integrated TPM V2.0, Discrete, Infineon SLM 9670AQ2.0
<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 4-pin header, 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>	Linux x86_64 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 - 60 °C FCC Part 15 Class A, ICES-003 Class A, cCSAus IEC62368-1, CE/UKCA (Planned)



## Ordering Information

MODEL	PART NO.	DESCRIPTION
K9051-C741 ATX	1070-9666	Intel® 4th/5th Generation Xeon SP with Intel® C741 Chipset
ACCESSORIES	1073-8944	Audio Feature Riser Board

## Your Contact

Kontron America Inc.

9477 Waples Street  
 San Diego, CA 92121, USA  
 Tel.: +1 888 294 4558  
 sales@us.kontron.com

www.kontron.com/motherboards

## Global Headquarters

Kontron Europe GmbH

Gutenbergstraße 2  
 85737 Ismaning, Germany  
 Tel.: +49 821 4086-0  
 info@kontron.com  
 pcmb-sales@kontron.com