

Datasheet DATAlynx ATX3 X4

Automotive 19" Dual-CPU Car-Server

DATAlynx ATX3

Generation X4

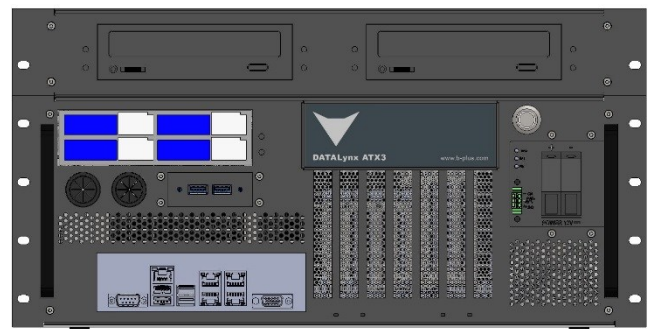
19" server for use in the automotive area

b-plus provides the **19 inch dual-cpu server** "DATAlynx ATX3" for high-performance computing and prototyping such as in-Vehicle algorithm development. A high-performance automotive Power Supply with **integrated** short-time UPS in combination with **liquid cooled** Intel® Xeon® E5 server processors allows **High-End CPU and Graphics Performance** operating in automotive environments up to **60°C** ambient temperature.

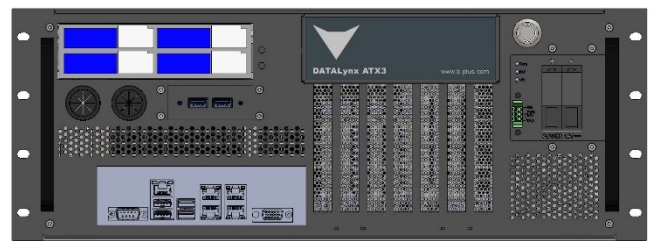
Up to 7 PCIe extension slots enable a wide range of I/O interface cards or high speed Data recording with NVMe based Solid State Drives. The optional b-plus **IEEE 802.1AS** extension enables time synchronization in a cluster of several systems. Remote management via IPMI 2.0 enables headless system control.

Highlights

- Dual Intel® Xeon® E5-2600 v4 Series
- Up to 768GB DDR4 ECC RDIMM memory
- High-End graphics or co-processors up to 500W
- Optional IEEE 802.1AS Timesync
- Up to 7 PCIe Slots for Extension Cards
- 10 to 18 slots for 2.5" SATA/SAS storage devices
- Operating temperature -8°C to +60°C
- Maximum performance up to +60°C

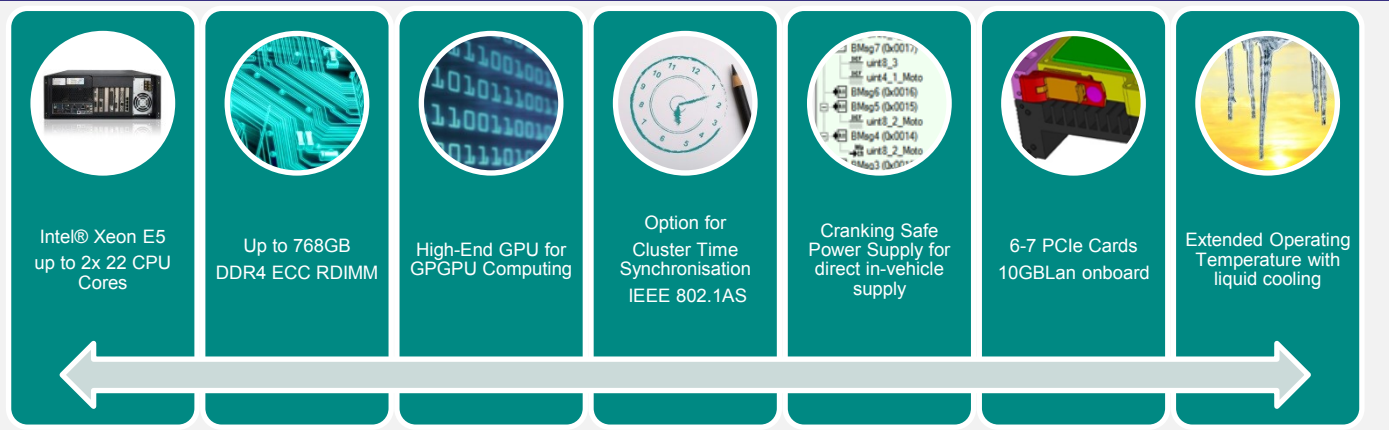


Picture 1: Sample configuration of DATAlynx ATX3 with 19" Storage Add-on (5.5 HE)



Picture 2: Sample configuration of DATAlynx ATX3 with standard 4HE case

Server-CPU performance and high-end graphics for automotive applications



Alle Daten bei 25°C Umgebungstemperatur, falls nicht anders angegeben. / All data at nominal input and 25° C ambient temperature, if not marked otherwise. ■ Alle Daten dienen nur Informationszwecken und sind nicht als zugesicherte Eigenschaften aufzufassen. / All data for information purposes only, no assured characteristics. ■ Technische Änderungen ohne vorherige Ankündigung sowie Irrtümer vorbehalten. / Technical modifications without notice and errors reserved. ■ Belastung mit Extremwerten über einen längeren Zeitraum kann die Zuverlässigkeit beeinflussen. / Strain with extreme values for a longer period may affect the reliability. ■ Alle Trademarks und Logos sind Eigentum der jeweiligen Unternehmen. / All trademarks and logos are property of the concerning companies. Im Falle von Unklarheiten ist die deutsche Version dieses Dokuments bindend / In case of doubts the German version of the document is binding. © b-plus GmbH • Mai-18 • Version 1.6

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Automotive 19" Dual-CPU Car-Server

Technical Information

Processor Series

- Intel® Xeon® E5-26xx v4 (Broadwell-EP)

Mainboard

- Dual Socket Mainboard with C612 Chipset

Memory

- 16 - 24 RDIMM sockets, max 768GB DDR4 ECC

Graphics / Co-processor

- Industrial NVIDIA® GeForce
- NVIDIA® Tesla®, Quadro®
- AMD Radeon™, FirePro™

Interfaces

- 4x USB 3.0, 2x USB 2.0
- 4x 10Gbit LAN (Intel® X540) onboard
- 2D VGA onboard
- Additional I/O Extensions via PCIe Cards

Storage

- 10x 2.5" SSD internal
- Up to 18 2.5" drives possible
- 10x PCH SATA 6Gbps + 8x RAID SATA 6Gbps
- 5.25" slot for swap bay or optical drives
- PCIe/NVMe SSD

PCIe Options

- 1x PCIe x16 Gen3 + 6x PCIe x8 Gen3
or
- 2x PCIe x16 Gen3 + 1x PCIe x4 Gen2 + 4x PCIe x8 Gen3

Optionale Features

- IEEE 802.1AS CTSS Cluster TimeSync Service
- CAN, FlexRay® or Ethernet PCIe options
- DATAlynx 5.25" Storage Add-on
- 1.5HE case option with 2 additional 5.25" slots

Supported Operating Systems

- Windows 7 x64
- Windows 10 x64
- Linux
- IPMI 2.0 support

Case

- Rugged 19", 4HE steel design

Size

- 442x475x176mm WxDxH
- 482.6x515x182.2mm WxDxH overall

Extended Temperature Design

- Operating: -8°C ~ +60°C¹
- Non-Operating: -35°C ~ +85°C¹
- Maximum Performance up to +55°C¹

Power Consumption

- 80W to 120W Idle¹
- 250W to 1000W peak¹

Internal Power Supply

- 1000W DC**
 - 9.5 – 17.5V DC
 - 9 - 18Ah UPS
 - Terminal 15 / 30 Power Management
- 1050W AC**
 - 230V ATX PC Power Supply
 - For industrial applications

Certifications

- CE – EN55032/EN55024 (Class A)
EN 61000-6-3 / EN 61000-6-2
- FCC (Class A)
- VCCI (Class A) on request
- E13 approval is available project based
- LV124 approved

¹ depending on system configuration and CPU specification

Order information

Name	Artikelnummer	Beschreibung
DATALynx ATX3 custom	B16005-DLY-001-XXXX	contact us for custom configurations
DATALynx ATX3 X3 K0	B16005-DLY-304-0000	Basic Configuration 0 with 2x E5-2640v4, 64GB DDR4 ECC, 256GB SSD, 2x 10GBLAN, 1kW AU + 9AH UPS, Win7
DATALynx ATX3 X3 K1	B16005-DLY-304-0001	Basic Configuration 1 with 2x E5-2643v4, 128GB DDR4 ECC, 512GB SSD, 1x 3.5" Swap Bay, 4x 10GBLAN, 4x GBLAN, 1kW AU + 18AH UPS, 1.5HE Storage Add-on mit 8x 2.5", Win7

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