

Datasheet DATAlynx ATX2 X3/X4

Automotive 19" HPC

DATAlynx ATX2

Generation X3/X4

19" HPC for use in the automotive area

b-plus provides the **19 inch HPC** "DATAlynx ATX2" 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 a **liquid cooled** Intel® Xeon® E5 server processor allows **High-End CPU and Graphics Performance** operating in automotive environments up to **65°C** ambient temperature.

7 PCIe extension slots enable a wide range of I/O interface cards or high speed Data recording with NVMe based Solid State Solutions. The optional b-plus **IEEE 802.1AS** extension allows time synchronization in a cluster of several systems.

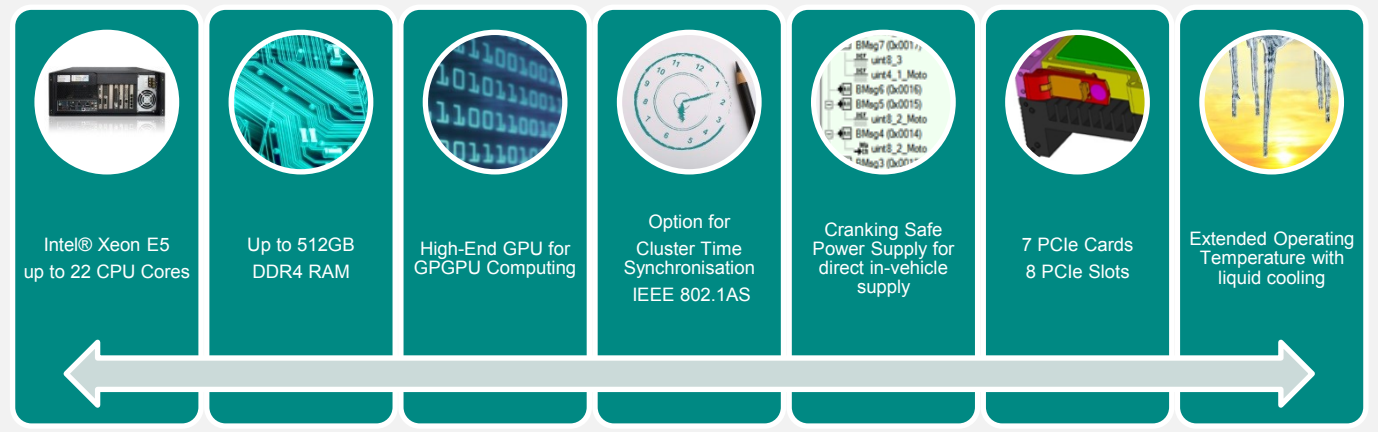
Highlights

- Intel® Xeon® E5-2600 v3 & v4 Series (X3/X4)
- Up to 512GB DDR4 RAM
- High-End graphics or co-processors
- Optional IEEE 802.1AS Timesync
- 7 PCIe Slots for Extension Cards
- Up to 10 storage devices (2.5" SATA), 4 external accessible
- Operating temperature -8°C to +65°C
- Maximum performance up to +65°C with liquid cooling



Picture 1: Sample configuration of DATAlynx ATX2 with 2.5" SwapBay, Nvidia GeForce GPU, 4x GBLAN PCIe Extension Card, automotive Power Supply and integrated UPS

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 2.0

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Technical Information

Processor Series

- Intel® Xeon® E5-16/26xx v3 (Haswell-EP) – X3
- Intel® Xeon® E5-16/26xx v4 (Broadwell-EP) – X4
- Intel® Core™ i7-69xx (Broadwell-E) – X4

Mainboard

- Extended Lifecycle Mainboard with C612 Chipset and Quad Channel DDR4

Memory

- Up to 512GB DDR4 ECC or nonECC

Graphics / Co-processor

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

Interfaces

- 4x USB 2.0, 4x USB 3.0, 2x PS/2
- 2x GBit LAN
- 3x HD Audio
- Additional I/O Extensions via PCIe Cards

Storage

- 10x 2.5" SSD internal + 4x within swap bay
- 10x SATA 6Gbps
- 5.25" slot for swap bay or optical drives
- PCIe/NVMe SSD

PCIe Options

- 2x PCIe x16 Gen3 (16 lanes)
- 1x PCIe x16 Gen3 (4 lanes)
- 1x PCIe x16 Gen2 (4 lanes)
- 1x PCIe x8 Gen3 (4 lanes)
- 2x PCIe x8 Gen2 (1 lane)
- 1 additional Slot for PCIe Brackets

Optionale Features

- IEEE 802.1AS CTSS Cluster TimeSync Service
- CAN, FlexRay® or Ethernet PCIe options
- 17W2 DSUB System Connector

Supported Operating Systems

- Windows 7 x64
- Windows 10 x64
- Linux (Debian / Ubuntu)

Case

- Rugged 19", 4HE steel design

Size

- 442x445x176mm WxDxH
- 482.6x485x182.2mm WxDxH overall

Extended Temperature Design

- Operating: -8°C ~ +65°C¹
- Non-Operating: -35°C ~ +85°C¹
- Maximum performance up to +65°C¹
- 3 industrial 120mm FANs (3000 or 2000 rpm)

Power Consumption

- 60W to 80W Idle¹
- 200W to 500W peak¹

Internal Power Supply

- 1000W DC**
 - 9 - 18V DC or 10.5 – 18V Automotive
 - integrated 9Ah UPS (2s/min cranking safe)
 - 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

¹ depending on system configuration and CPU specification

Order information

Name	Artikelnummer	Beschreibung
DATALynx ATX2 custom	B16002-DLY-002-XXXX	Contact us for custom configurations
DATALynx ATX2 X3 K0	B16002-DLY-002-0000	Basic configuration E5-2640v3, GTX1060, 32GB ECC, 256GB SSD, Win7, 4x GBLAN, 1kW AU + UPS

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