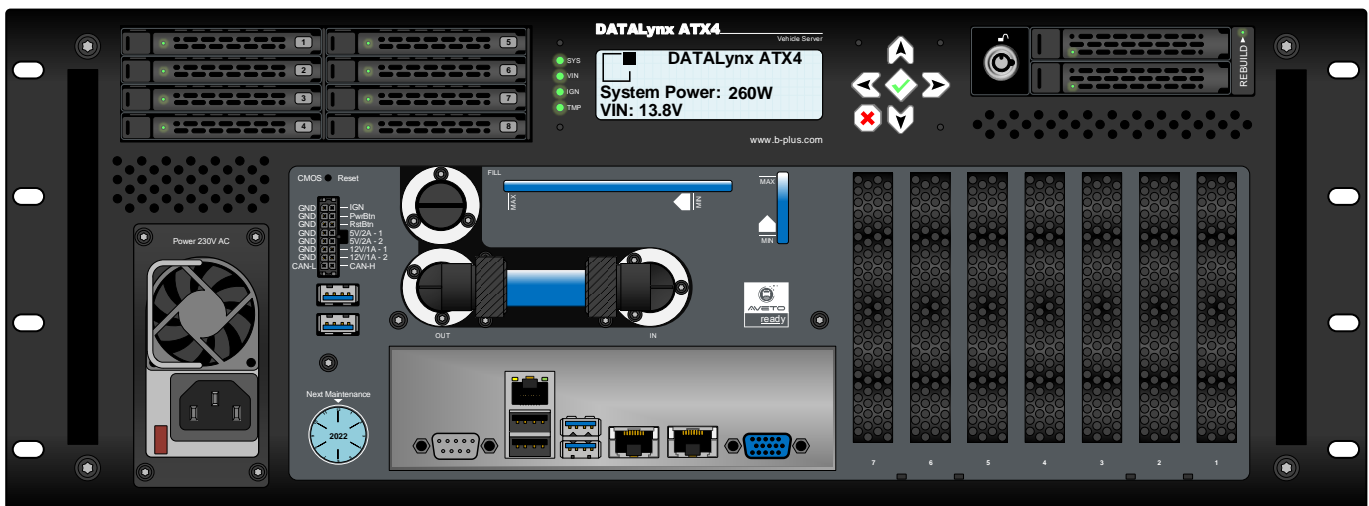


DATAlynx ATX4

Generation EP2/EP3 & SX2



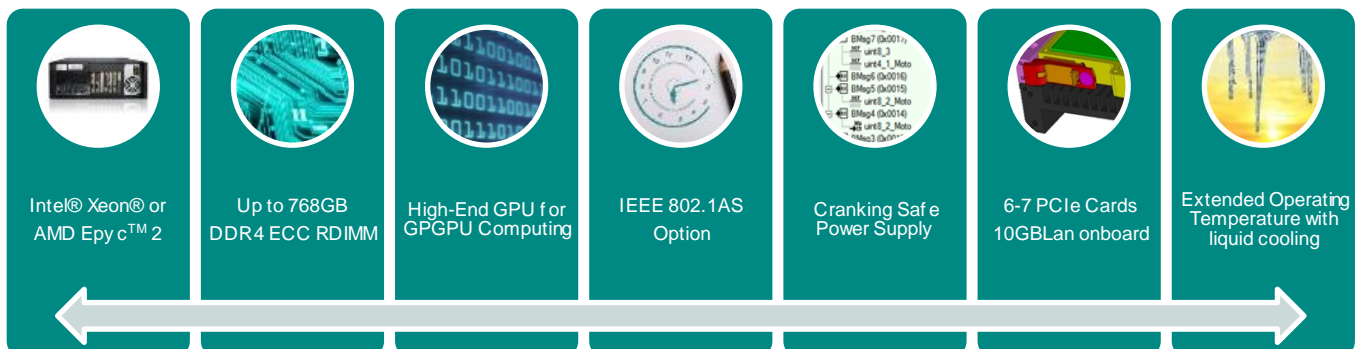
4U / 19inch Vehicle Server

DATAlynx, the b-plus series for high performance computing solutions, achieves the next level for in-vehicle applications. With a completely new designed b-plus 100A DC Power Supply and an extremely powerful liquid cooling setup the DATAlynx ATX4 enables maximum CPU and GPU performance from -10°C to $+60^{\circ}\text{C}$ operating without throttling.

With several 1.5U Add-ons the system could be scaled up from a multi-I/O recording setup to a deep learning and AI configuration with 4 high-power NVIDIA GPUs.

Highlights

- AMD EPYC™ 7002 & 7003 Processors
- 2nd Gen Intel® Xeon® Scalable Processors
- Single Socket SP3 or Dual S3647 Mainboard
- Liquid cooled processors and power supply
- 6 – 32V DC automotive PSU with Ignition
- Up to 768GB DDR4-3200 ECC RDIMM
- 10 SATA SSD, exchangeable
- 7 PCIe Slots with many options pre-qualified
- PCIe Add-ons for additional flexibility
- Support for Multi-CPU/GPU configurations
- -10°C to $+60^{\circ}\text{C}$ full operating



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 • Apr-21 • Version 0.6

Technical Specifications

	Generation EP2	Generation EP3	Generation SX2
Part Number	16047-DLY-EP2-xxxx	16047-DLY-EP3-xxxx	16047-DLY-SX2-xxxx
Processor	AMD EPYC™ 7002	AMD EPYC™ 7003	2 nd Gen Intel® Xeon® Scalable
Mainboard	Supermicro H11SSL-i	Supermicro H12SSL-i	Supermicro X11DPH-T
Memory	64GB to 512GB	64GB to 512GB	48GB to 384GB per CPU
PCIe	3x PCIe 3.0 x16 3x PCIe 3.0 x8	5x PCIe 4.0 x16 2x PCIe 4.0 x8	3x PCIe 3.0 x16 4x PCIe 3.0 x8
I/O	2x 1000Base-T 4x USB 3.0, 2x USB 2.0	2x 1000Base-T 6x USB 3.0	2x 10GBase-T 6x USB 3.0
Management	1x LAN, 1x VGA, 1x Serial		
3.5in bay	OS storage option, e.g. 2x 2.5" SATA SSD swap bay with HW RAID1		
5.25in bay	Data storage expansion, e.g. 8x 2.5" SATA SSD Wechselrahmen		
Power Supply	6 - 32V (9 – 32V permanent) DC, Optional 200 - 240V AC, 50Hz		
SIODI	Ignition, Pwr/Rst Button, CMOS Reset, 2x 5V out, 2x 12V out		
HMI	78x22mm 20x4 character LCD display for system monitoring und configuration		
Operating temperature	-10°C to +60°C operating, -35°C to +85°C non-operating (DC Variante) 0°C to +40°C operating, -20°C to +70°C non-operating (AC Variante)		
Size	4 HE, 19 Zoll, 442x475x176 BxTxH		
Certifications	CE – EN55032/EN55024 (Klasse A), EN61000-6-3 / -6-2, LV124 geprüft Auf Anfrage: FCC, VCCI, E1		

1.5HE Erweiterungen



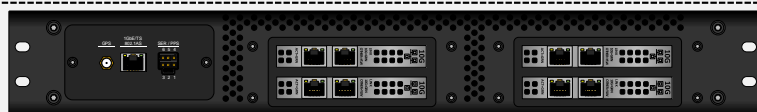
Add-on 5.25"

- Passive Add-on with 2x 5.25" Slot
- 2x swap bay for 3.5" HDD



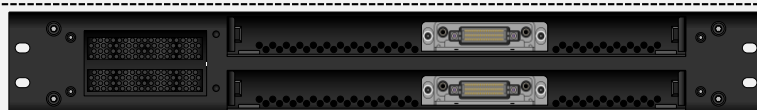
Add-on PCIe 4x8

- Active Add-on with PCIe 3.0 Switch
- 4 additional PCIe x8 Slots
- Optional AC/DC Power Supply for GPUs



Add-on XTSS

- Active Add-on with PCIe 3.0 Switch
- b-plus 802.1AS XTSS TSN Extension
- GPS, PPS, NMEA and up to 16x 10GbE



Add-on B2S

- Active Add-on with PCIe 3.0 Switch
- 2x PCIe x8, 2x BRICK2 Storage Cartridge

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