

DATAlynx mITX2

Generation G6/G7

flexible mITX Desktop PC for automotive applications

b-plus provides the mITX desktop platform „DATAlynx mITX2“ for high-performance computing and recording for in-vehicle applications. A powerful automotive power supply up to 300W combined with an optimized system design allows Desktop CPU and GPU Performance incl. CUDA® Support within vehicles.

The optional **IEEE 802.1AS** extension enables time synchronization in a cluster of several systems.

Highlights

- Intel® Gen6 and 7 Celeron® to Core™ i7 (i7-6000 / i7-7000 Desktop Series 35 or 65W)
- 3 PCIe extension slots (x8+x4+x4)
- 1 mPCIe extension slot for dual CAN(FD)
- Support for NVIDIA® PCIe Graphics up to 120W
- Support for IEEE 802.1AS Timesync
- Dual 2.5" option and internal M.2 SSD for OS
- Operating temperature -10°C to +60°C



Illustration: Sample configuration of DATAlynx mITX2 G6

Desktop CPU performance for automotive applications

<p>Intel® Core™ i7-6000 Core™ i7-7000</p>	<p>Up to 32GB DDR4 SODIMM</p>	<p>Mid-Range GPU Cards for GPGPU Computing</p>	<p>Option for Cluster Time Synchronisation IEEE 802.1AS</p>	<p>Cranking Safe Power Supply for direct in-vehicle supply</p>	<p>flexible with 1 mPCIe Slot 3 PCIe Cards</p>	<p>Extended Operating Temperature</p>
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Technical Information

Processor Series

- Intel® Celeron® / Core™ i7-6000 (Skylake-S)
- Intel® Celeron® / Core™ i7-7000 (Kaby Lake-S)

Mainboard

- Extended Lifecycle Mainboard with Q170 Chipset and Dual Channel DDR4 SODIMM

Arbeitsspeicher

- Up to 2x16GB DDR4 SODIMM

Graphics

- Intel® HD Grafik integrated
- Industrial NVIDIA® GeForce® GTX up to 120W (GTX1060, GTX1660Ti)

Interfaces Mainboard

- 4x USB 2.0, 4x USB 3.0
- 2x GBit LAN (Intel i210 / i219)
- 2x HD Audio, 1x Serial, 2x PS/2
- 1x DVI-D, 2x DP++ v1.2

Interfaces I/O Area

- 1x Serial, 1x eSATA
- 2x DSUB9 (e.g. CAN1/2 via mPCIe)
- LED for Power, HDD, System Events

Storage

- 1x M.2 2242 internal for OS (8 - 256GB)
- 2x 2.5" SATA SSD/HDD
- NVMe SSDs via PCIe extensions

Optional Features

- IEEE 802.1AS CTSS Cluster TimeSync Service

PCIe Extension Slots

- 1x PCIe x8 Gen3
- 2x PCIe x4 Gen3
- 1x mPCIe

Supported Operating Systems

- Windows 7 x64 (Skylake CPU only)
- Windows 10 IoT Enterprise x64
- Debian/Ubuntu Linux

Case

- Rugged mITX case
- Optional 19" Rack mount adapter

Size

- 333.4 x 330 x 97mm (WxDxH)

Temperature

- Operating: up to -10°C to +60°C
With 65W CPU or GPU: -10°C to +50°C
- Non-Operating: -40°C to +85°C

Power Consumption

- 40W Idle, 100W to 300W maximum

Power Supply

- 150W or 300W Automotive PSU
- 7.5 – 33V Wide Range Input Voltage
- Terminal 15/30 Power Management

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

Order Information

Name	Part No.	Description
DATALynx mITX2 G6 K0	B16004-DLY-206-0000	Basic configuration 0 with Core™ i7-6700, 32GB RAM, 128GB + 2x 1TB SSD, 2x CAN, Nvidia GTX1060, Intel X550-T2, Win7
DATALynx mITX2 G6 K1	B16004-DLY-206-0001	Basic configuration 1 with Core™ i7-6700TE, 32GB RAM, 128GB SSD, 2x CAN, Win7
DATALynx mITX2 G6 K2	B16004-DLY-206-0002	Basic configuration 2 with Core™ i5-6500TE, 16GB RAM, 128GB SSD, Win7
DATALynx mITX2 G6 K3	B16004-DLY-206-0003	Basic configuration 3 with Celeron® G3900TE, 8GB RAM, 64GB SSD, Linux

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