

Mayflower®-B17-LiQuid-vX

Liquid cooled in-vehicle server for AI/GPU and Sensor Fusion Applications

Features

- High computing power due to powerful CPUs and up to 5x GPU/Tensor cards
- Liquid cooling for CPU and GPU/Tensor cards
- Optimal for AI applications through powerful GPUs
- Robust full industrial components for 24/7 operation
- Expandable through 6 PCIe slots and InoNet QuickTray®



Configuration example

Further configurations on request!

Mainboard:

Industrial Mainboard E-(ATX), 24/7 operation, long-term availability
Chipset: Intel® C621A

Processor:

Dual Intel® XEON® Scalable (3rd Gen)
Liquid cooled

Memory:

16x DDR4 DIMM, max. 3200 MHz
RDIMM/LRDIMM, max. 256 GB/DIMM

AI Support:

Up to 5x GPU/Tensor cards
PCIe x16/x8, Liquid cooled

I/O:

Back
2x 1GBit LAN (RJ45)
4x 10GBit LAN (RJ45), PCIe x8 card
1x Dedicated IPMI LAN (RJ45)
1x RS-232
4x USB 3.2 (Gen 1)
1x VGA
1x UID LED/BMC Reset

Drive Bays:

Internal
1x M.2
External
2x 5.25"
Optional QuickTray®
1x integrated (uses 2x 5.25")
Extension with up to 2x QuickTray®.
Per QuickTray® up to 14 GB/s* (2x QuickTray® up to 28 GB/s*) and 120 TB* with 4x NVMe SSDs

Graphic:

OnBoard AST2600
Optional
NVIDIA® T600, 4 GB GDDR6, 4x mDP

* Depending on SSD type and manufacturer, real measured with Iometer (continuous write mode)
** With external radiator (25° C), in full expansion at full load (24/7): 0° ~ 40° C

Power Supply:

9 ~ 18 VDC / 1000 Watt
Screw terminals for ring eyelets
Optionally 24/48 VDC or AC

Expansions:

4x PCIe x16 (Gen 4)
2x PCIe x8 (Gen 4)
full height

Optional

Additional extensions for automotive applications (Ethernet, CAN, LIN® etc.)

Mechanical:

Chassis

19 Zoll 4HE Rackmount-Chassis
Dimensions (W x H x D)
430 x 177 x 401 mm
QuickTray® extension:
430 x 115 x 417 mm (2x QuickTray®)
Cooling
Hybrid cooling system with 2x 120mm fans and liquid cooling for CPU and up to 5 Tensor cards
Remote radiator with 2x 120mm fans

Environment:

Operating Temperature
-20° ~ 70° C**
Storage Temperature
-20° ~ 70° C
Relative Humidity
10 ~ 90 % (non condensing)
IP Protection
IP20

Certifications:

CE (93/68/EWG)
EMV (2014/30/EU)
Low voltage safety (2014/35/EU)

Operating System:

Microsoft® Windows® 10/11/Server
Linux®

Mayflower®-B17-LiQuid-vX Additional illustrations



Up to 5x Tensor cards
PCIe x16/x8
Liquid cooled



Remote radiator with
2x 120mm fans for
liquid cooling

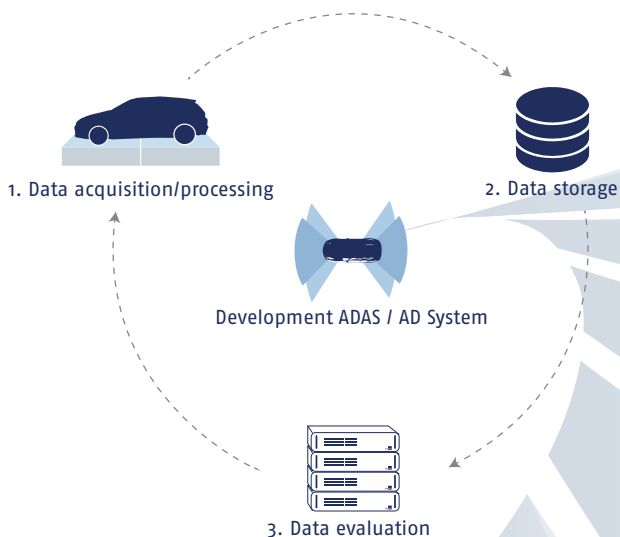
Optional extension with up to 2x QuickTray®



Up to 14 GB/s* each QuickTray® (2x QuickTray®
up to 28 GB/s*) and 120 TB* with 4x NVMe SSDs

* Depending on SSD type and manufacturer, real
measured with Iometer (continuous write mode)

InoNet Automotive Ecosystem



The InoNet Automotive Computer Ecosystem describes the entire spectrum of scalable hardware solutions for vehicle development – especially in the field of ADAS and AD and their subsequent testing.

Our product portfolio covers all categories, from data acquisition and processing in the vehicle to fast and secure storage on exchangeable data storage devices to subsequent data evaluation via server farms or workstations.

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