

## Mayflower®-B17-LiQuid vE

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

### Features

- ↗ High computing power due to powerful CPUs and up to 5x Tensor cards
- ↗ Liquid cooling for CPU and Tensor cards
- ↗ Optimized for AI applications through powerful GPUs
- ↗ Robust full industrial components for 24/7 operation
- ↗ Expandable through 7 PCIe x16 slots and InoNet QuickTray®



### Configuration example

Further configurations on request!

#### Mainboard:

Industrial Mainboard (ATX), 24/7 operation, long-term availability

#### Processor:

AMD® EPYC™ 7003/7002  
Liquid cooled

#### Memory:

8x DDR4 DIMM, max. 3200 MHz  
RDIMM/LRDIMM: max. 128 GB/DIMM

#### AI Support:

Up to 5x Tensor cards, PCIe x16  
Liquid cooled

#### I/O:

2x 10Gbit LAN (RJ45)  
4x 10Gbit LAN (RJ45), PCIe x8 card  
1x Dedicated IPMI LAN (RJ45)  
1x RS-232  
2x USB 3.2 (Gen 1)  
1x USB-C 3.2 (Gen 2)  
2x DisplayPort (optional)  
1x VGA

#### Drive Bays:

**Internal**  
1x 2.5", 2x M.2 (one M.2 slot depending on slot configuration)  
**External**  
2x 2.5" removable frame  
**Optional QuickTray®**  
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 AST2500, 512 MB DDR4  
**Optional**  
NVIDIA® T400, 2 GB GDDR6, 2x DP

#### Certifications:

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

#### Power Supply:

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

#### Expansions:

7x PCIe x16 (Gen 4), full height  
**One slot of it optional**  
- PCIe x16 (Gen 4)  
- PCIe x8 (Gen 4), second M.2  
- no PCIe, second M.2, 2x OCuLink  
**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 175 x 400 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 condenser with 4x 120mm fans

#### Environment:

**Operating Temperature**  
0° ~ 55° C\*\*  
**Storage Temperature**  
-20° ~ 70° C  
**Relative Humidity**  
10 ~ 90 % (non condensing)  
**IP Protection**  
IP20

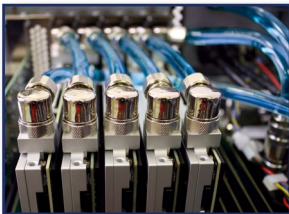
#### Operating System:

Microsoft® Windows® 10 (limited)  
Microsoft® Windows® Server, Linux®

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

## Mayflower®-B17-LiQuid vE Additional illustrations

Remote condenser with  
4x 120mm fans for  
liquid cooling



Up to 5x Tensor cards  
PCIe x16  
Liquid cooled

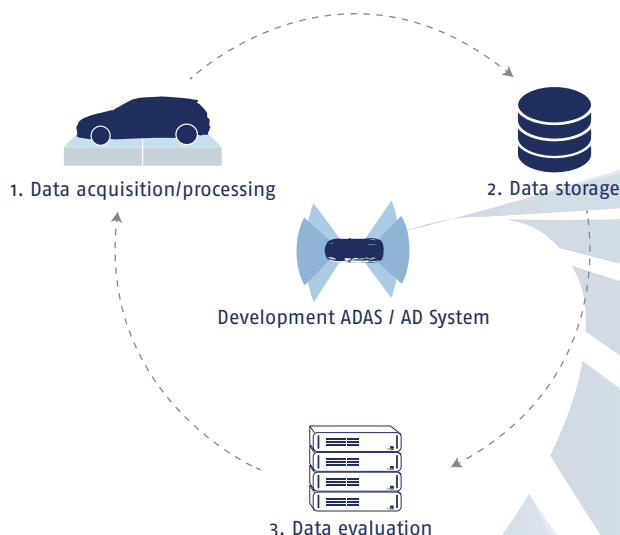
Optional extension with up to 2x QuickTray®



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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