

## Mayflower®-Q12aW-SP5

Liquid cooled, multi-PCIe data logger for in-vehicle use and AI/GPU and sensor fusion applications with up to 12 PCIe slots

### Features

- AI support thanks to multi-GPU support and high-performance CPU
- Liquid cooling for CPU and GPU/sensor/network cards
- Robust full industrial components for in-vehicle operation
- Up to 12 PCIe slots of the 5<sup>th</sup> generation
- Encryption support
- Up to 3x InoNet QuickTray®-v3



### Configuration example

Further configurations on request!

#### Mainboard:

Industrial Mainboard, 24/7 operation, long-term availability

#### Processor:

AMD® EPYC™ 9004/97X4  
Socket SP5  
Liquid cooled

#### Memory:

8x DDR5 DIMM, max. 4800 MHz  
RDIMM, max. 4 TB

#### AI Support:

Multi-GPU support  
Liquid cooled, PCIe x8/x16

#### Graphic:

OnBoard AST2600, 512 MB DDR4  
Optional  
NVIDIA® T600, 4 GB GDDR6, 4x mDP

#### I/O:

Back  
2x 1 GBit LAN (RJ45)  
2x 10 GBit LAN (RJ45)  
4x 10 GBit LAN (RJ45) optional  
1x Dedicated IPMI LAN (RJ45)  
2x USB 3.2 (Gen 1)  
1x VGA  
1x UID button with LED

#### Drive Bays:

Internal  
1x M.2 (M-key, Type: 2280)  
1x M.2 (M-key, Type: 22110/2280)  
External  
2x 5.25"  
QuickTray®-v3  
1x integrated (2x 5.25" required)  
Extension  
Optional up to 2x QuickTray®-v3  
Up to 26 GB/s\* per QuickTray®-v3  
(2x QT up to 28 GB/s\*) and  
240 TB\* with 4x NVMe SSDs

#### Power Supply:

9 ~ 18 VDC / 1100 Watt  
24/48 VDC or AC optional

#### Expansions:

4x PCIe x16 (Gen 5)  
2x PCIe x8 (Gen 5)  
full height  
Extension  
6x PCIe (Gen 5) slots with 40 lanes  
Can be divided into PCIe x16 and  
PCIe x8 as required  
Optional  
Additional extensions for  
automotive applications  
(Ethernet, CAN, LIN® etc.)

#### Mechanical:

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

#### Environment:

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

#### Operating System:

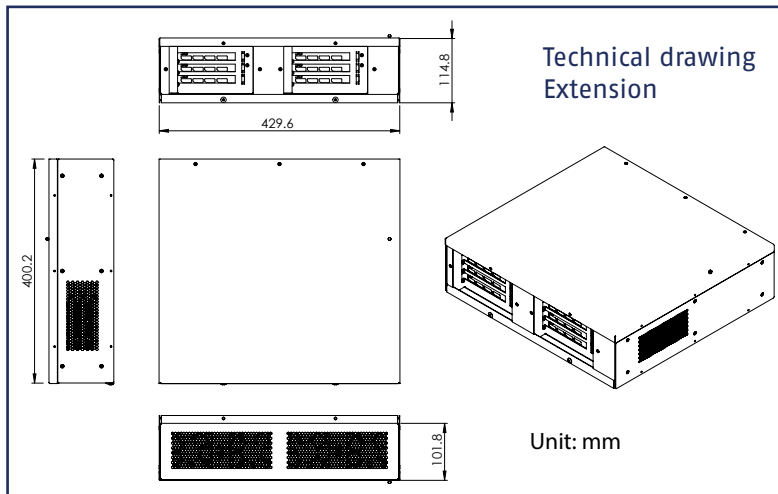
Microsoft® Windows® Server  
Linux®

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

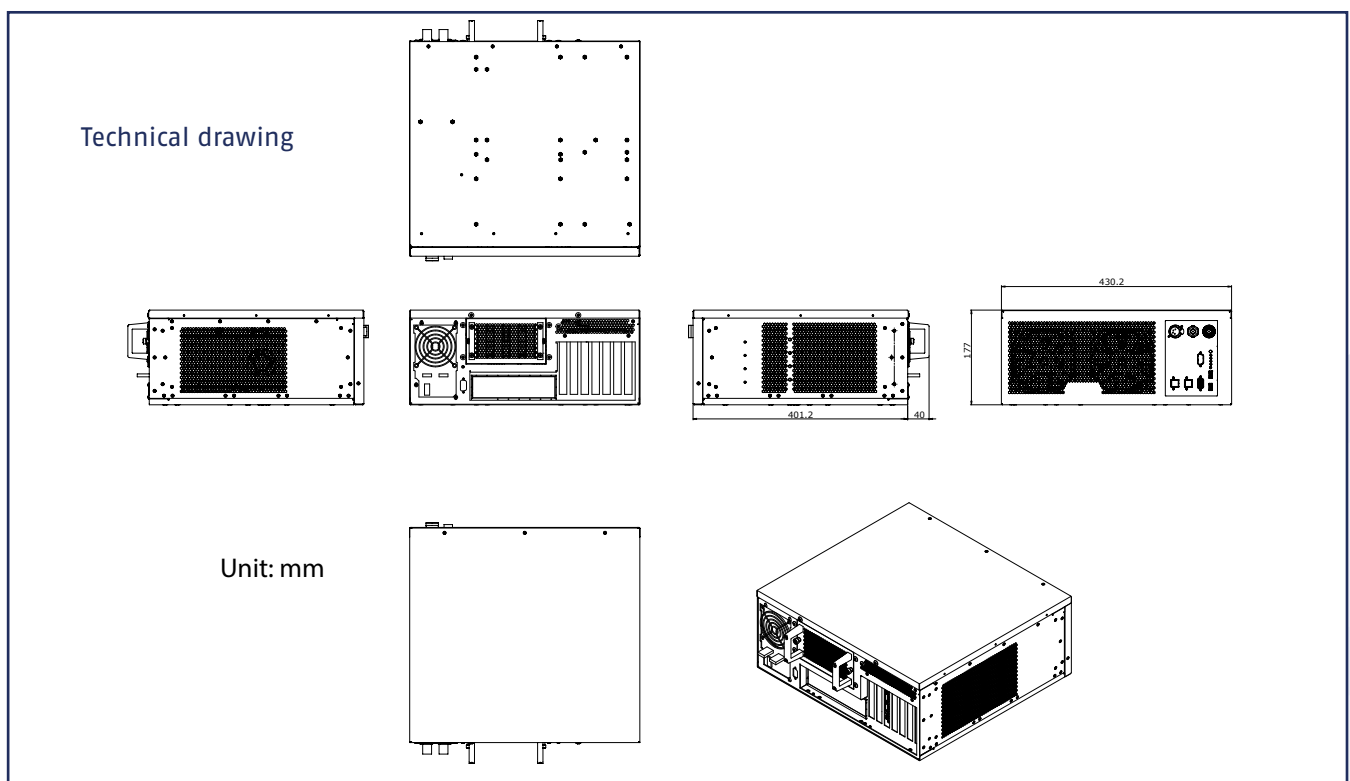
\*\* With external radiator (25° C),  
in full expansion at full load (24/7): 0° ~ 40° C

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### Additional illustrations



Remote radiator with  
2x 120 mm fans for  
liquid cooling



### InoNet Competences and Services



Consulting



Development



Testing



Customization



Manufacturing



Certifications

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