InoNet
A EUROTECH COMPANY

InoNet Automotive Solutions

Scalable Computing Solutions for Vehicle Development (ADAS & AD)

Innovative hardware technologies
3000+ systems worldwide

Individual solutions for various applications
1000+ specific configurations

Reliability you can count on
25+ years of experience

Engineering the Future
99% upgradeable systems



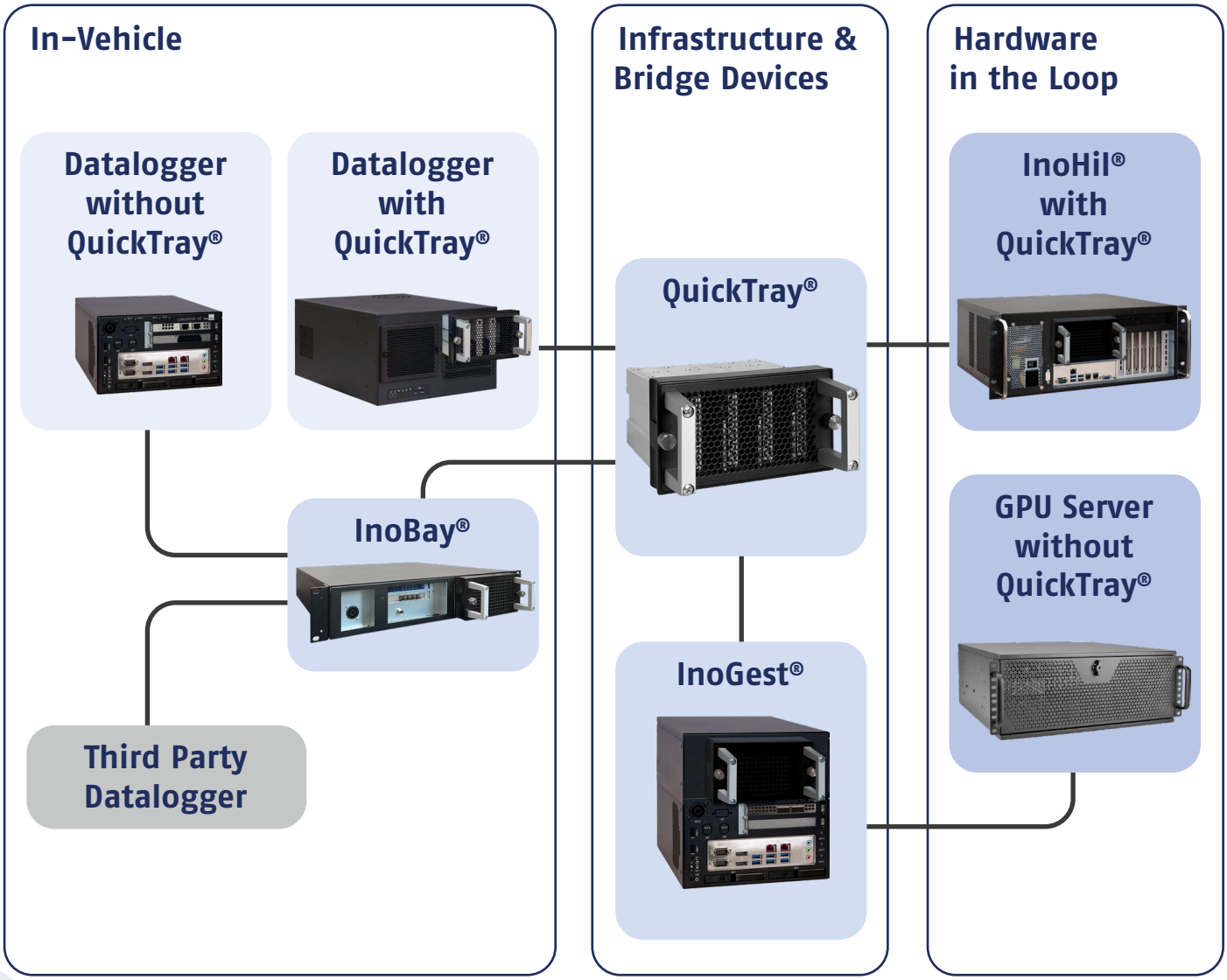
InoNet QuickTray® Computing Ecosystem

The complete range of hardware solutions for vehicle development

Testing and validation in vehicle development

Testing and validation during the development of Advanced Driver Assistance Systems (ADAS) and Autonomous Driving (AD) functions (including ISO 26262) places high demands on the hardware used to test the control unit and its software. From SAE Level 3 to 5 of autonomous driving, the raw sensor data (cameras, LiDAR, RADAR) increases almost exponentially during test drives. As a result, high data write rates, massive computing power and large mass storage devices are required to ensure functionality and security.

InoNet QuickTray® Ecosystem



InoNet provides scalable computing solutions for ADAS/AD applications in vehicle development, working hand in hand with OEMs, Tier 1 suppliers and universities. Our systems can be found in test applications for ADAS systems or traditional automotive components in the vehicle and in HiL (hardware-in-the-loop) applications. The InoNet QuickTray® Ecosystem offers rugged computer systems for data acquisition/processing, data storage and data evaluation in demanding test applications ranging from high-end data logging, model training to AI inference.

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In-Vehicle Dataloggers

Compact // Sense

Measurements of individual modules and driver assistance systems

From validating a single sensor module to running full driver assistance system campaigns across a shared test fleet – all in a fanless, trunk-ready package built for -20° to 70° C.

Whatever the scope, the priority is the same: get clean data out of the vehicle, fast.



Concepion®-hXa-v3-S-Q670E

Performance // Process

Test and validation of Advanced Driver Assistance Systems (ADAS)

From high-throughput ADAS validation to intelligent edge processing – this class brings serious data transfer rates and real compute into the vehicle at a more efficient form factor and power consumption.

At the upper end, the focus shifts from raw data capture toward selective, pre-processed acquisition directly in the car – reducing bandwidth demands before the data ever leaves the vehicle.



Mayflower®-Q5aW-SP6

High End // Compute

ADAS & Autonomous Driving (AD) Level 2-5; High-End Data Logging, AI Training, HiL Simulations

From AI-accelerated lab workflows and HiL simulations to full autonomous driving deployments across truck fleets. Scalability!

These High End Dataloggers are built for maximum throughput, liquid-cooled GPU performance, and the kind of multi-HPC configurations that real-world AD testing demands.



Mayflower®-B17-LiQuid-vX

Infrastructure & Bridge Devices

QuickTray® // Storage

Universal hot-plug data medium for in-vehicle and shopfloor use

The QuickTray®-v3 is the physical foundation of the entire ecosystem – a hot-pluggable, encryption-ready cassette in a standardized 2x 5.25" format. With up to 240 TB capacity and write rates of up to 26 GB/s, it sustains the most demanding test drives without a storage change.

Sacrifice connectors extend the plug lifecycle to several hundred cycles. Hardware-based encryption protects sensitive data at every step. Backward compatible with all previous QuickTray® generations.

Simplicity, Velocity and Durability



QuickTray®-v3

InoBay® // Connect

Universal storage extension for any datalogger architecture

The InoBay®-2U brings the full QuickTray® ecosystem – high write throughput, hot-plug, hardware encryption – to any existing logger setup, including third-party hardware. No new logger investment required.

Designed for in-vehicle use under demanding conditions: elevated temperatures, shocks, and vibrations. Support for SSDs up to 240 TB enables longer, uninterrupted test drives and richer datasets for AI development.



InoBay®-2U

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InoGest® // Transfer

From portable copy station to full shopfloor ingest infrastructure

From compact field tools to server-grade infrastructure – InoGest® handles the QuickTray® data chain from the vehicle to the data lake. The Copy-Station covers field and workshop scenarios with a slim form factor and up to 25 GBit Ethernet.

The Copy-Server scales to four simultaneous QuickTray® slots, 100 GBit Ethernet, and AMD®/Intel® compute for 24/7 operation.

Whatever the scale: pull the tray, insert it, done.



InoGest® Copy-Station tXf-v3-L-R680E

Hardware in the Loop

InoHiL® // Simulate

19" servers – the lab mirror of your in-vehicle Car HPC

The InoHiL® series closes the loop between the test vehicle and the simulation lab. Same rugged housing as the in-vehicle Car HPCs, same liquid-cooled GPU architecture – swapped for a standard AC power supply and optimized for stationary HiL operation. Optional QuickTray® slots allow direct tray-to-simulation workflows without intermediate transfer steps.

Customers running the same hardware in both environments get identical driver and software behavior, consistent thermal envelopes, and a shared spare parts pool – significantly reducing qualification overhead.



InoHiL®-B17QW-SP3

GPU Server // Accelerate

Blackwell-based compute for AI, machine vision, and industrial workloads

Built on NVIDIA® Blackwell architecture and industrial-grade platforms designed for 24/7 operation – the GPU

Server line covers the full range from compact single-GPU entry systems to scalable dual-GPU configurations for demanding AI training and inference workloads.

Shallow depth, standard hardware, no automotive overhead. Configurable from low-power edge deployments to multi-GPU setups for computer vision, LLM inference, and industrial simulation.



Mayflower®-ID-AM5 – GPU Server

Beyond the Shelf

Custom engineering for the demands standard hardware can't meet

Every test environment has its limits – thermal, spatial, or application-specific. Where off-the-shelf solutions reach their boundaries, **InoNet engineers** custom configurations: from **tailored cooling architectures** and modified **form factors** to fully integrated system designs built around your exact requirements.

Whether it's **external liquid cooling** for high-density in-vehicle deployments, custom **mounting solutions**, or **hardware adaptations** for edge cases in ADAS and AD testing – we build around your challenge, not the other way around.

Talk to us.

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Product Overview Automotive Computing

Configuration examples from the InoNet QuickTray® Ecosystem

	In-Vehicle Dataloggers			
	Compact // Sense		Performance // Process	High End // Compute
	Concepion®-jXa-v4	*Concepion®-tXfa-v3-L*	*Mayflower®-Q5aW*	*Mayflower®-Q12aW*
				
CPU	Intel® Core™ i 12th/13th/14th Generation	Intel® Core™ i 12th/13th/14th Generation	AMD® EPYC™ 8004	AMD® EPYC™ 9004/97x4
RAM	up to 64 GB DDR5	up to 64 GB DDR5	up to 768 GB DDR5	up to 4 TB DDR5
Drives (internal)	-	2x M.2	2x 2.5", 2x M.2	2x M.2
Drives (external)	2x 2.5" (Hot-Swap)	2x 2.5" (Hot-Swap) optional QuickTray®-v3	1x 5.25" QuickTray®-v3	2x 5.25" QuickTray®-v3
Expansion slots	-	2x PCIe x8 (Gen 4) (already used)	3x PCIe x16 (Gen 5) 1x PCIe x8 (Gen 5)	4x PCIe x16 (Gen 5) 2x PCIe x8 (Gen 5) Extension: 6x PCIe (Gen 5)
GPU	onBoard	NVIDIA® L4 TENSOR CORE	onBoard	Multi-GPU-Support
AI ready	-	yes	-	yes
USB	4x 3.2 / 6x 2.0	6x 3.2 / 2x 2.0	4x 3.2	2x 3.2
Communication	1x GBit LAN, 3x 2.5 GBit LAN Wi-Fi, Bluetooth GNSS, LTE	2x 2.5 GBit LAN 2x 10 GBit LAN via slot (25 GBit LAN on request) optional with 5 antennas for Wi-Fi/BT/LTE/5G or GNSS	2x 1 GBit LAN 2x 10 GBit LAN opt. 4x 10 GBit LAN via slot opt. 4x 25 GBit LAN via slot	1x GBit LAN, 2x 10 GBit LAN opt. 4x 10 GBit LAN via slot
Power	Neutrik (Ignition)	Neutrik (Ignition)	DC connectors	DC connectors
Max. consumption	95 Watt	250 Watt	550 Watt	up to 1100 Watt
Electricity supply	11 ~ 32 VDC	11 ~ 34 VDC	9 ~ 18 VDC	9 ~ 18 VDC optional 24/48 VDC or AC
Bus-Systems	CAN, CAN-FD, FlexRay, LIN®, MOST, etc. (internal/external, expansion cards required)			
Mounting	InoFix (custom automotive mount designed by InoNet)			
Cooling	Passive	Active, 2x 80 mm fans	Active, 1x 120 mm fan Liquid cooling	Active, 2x 120 mm fans Liquid cooling
Dimensions WxHxD	200 x 126 x 206 mm	215 x 131 x 303 mm	330 x 196 x 410 mm	430 x 279 x 401 mm
Operating temperature	-10° ~ 55° C	0° ~ 55° C	0° ~ 50° C	-20° ~ 70° C

Infrastructure & Bridge Devices	
QuickTray® // Storage	
	QuickTray®-v3
Drives	4x SSD (NVMe or SATA) up to 15 mm height
Bandwidth	PCIe x4 (Gen 4) connection per SSD (for NVMe)
RAID-Type/Level	Software / Hardware / 0, 1, 5
Interface internal	Power and data connection via host
Dimensions	148.3 x 84 x 140 mm (WxHxD)
Operating temperature	-20° ~ 70° C (depending on the drives installed and the area of application)



3x QuickTray®-v3 installed in the Mayflower®-Q12aW

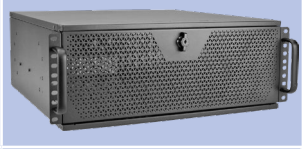


QuickTray®-v3

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Product Overview Automotive Computing

Configuration examples from the InoNet QuickTray® Ecosystem

	Infrastructure & Bridge Devices		Hardware in the Loop	
	InoBay® // Connect	**InoGest® // Transfer**	**InoHiL® // Simulate**	**GPU Server // Accelerate**
	InoBay®-2U	***InoGest® Copy-Server II***	***InoHiL®-B17QW***	***Mayflower®-II-SP5 GPU Server***
				
CPU	-	AMD® EPYC™ 7003/7002	AMD® EPYC™ 7003/7002	AMD® EPYC™ 9005/9004
RAM	-	up to 1 TB	up to 1 TB	up to 4 TB
Drives (internal)	-	1x 2.5" (U.2), 2x M.2	1x 2.5" (U.2), 2x M.2	4x 2.5", 2x 3.5", 2x M.2
Drives (external)	QuickTray®-v3	up to 4x QuickTray®-v3	1x QuickTray®-v3 optional up to 3x Quick-Tray®-v3	-
Expansion slots	4x external PCIe x4 ports (SFF-8644) for copper cables (Fiber optic on request)	7x PCIe x16 (Gen 4) (6x already used)	7x PCIe x16 (Gen 4)	2x PCIe x16 (Gen 5)
GPU	-	onBoard	up to 5x GPU/Tensor cards	2x NVIDIA® RTX PRO™ 6000 Blackwell Max-Q Workstation
AI ready	-	yes	yes	yes
USB	-	3x 3.2	3x 3.2	4x 3.2
Communication	Host-Card: any compatible card with SFF-8644 ports	2x 10 GBit LAN, 1x IPMI 4x 100 GBit LAN	2x 10 GBit LAN, 1x IPMI optional 2x 100 GBit LAN via slot	2x 1 GBit LAN 2x 10 GBit LAN
Power	Neutrik	IEC socket	IEC socket	IEC socket
Max. consumption	250 Watt	1200 Watt	1200 Watt	2000 Watt
Electricity supply	6 ~ 30 VDC	90 ~ 264 VAC	90 ~ 264 VAC	90 ~ 264 VAC
Bus-Systems	-	Expansion through CAN, CAN-FD, FlexRay, LIN®, MOST, etc.	Expansion through CAN, CAN-FD, FlexRay, LIN®, MOST, etc.	Expansion through CAN, CAN-FD, FlexRay, LIN®, MOST, etc.
Mounting	19" Rack, Angles and Handles	19" Rack, Angles and Handles	19" Rack, Angles and Handles	19" Rack, Angles and Handles
Cooling	Active, 1x 80 mm fan	Active, 3x 120 mm fans	Active, 2x 120 mm fans Liquid cooling	Active, 3x 120 mm fans, 2x 80 mm fans
Dimensions WxHxD	423.9 x 88 x 400 mm	483 x 177 x 571 mm	430 x 175 x 400 mm	440 x 176 x 468 mm
Operating temperature	-20° ~ 55° C	0° - 35° C	0° ~ 55° C	0° ~ 50° C

Supplementary services and accessories for the automotive industry

- Action button (remote control) for various applications and functions (e.g. reset, recording, etc.) for convenient operation during test drives from the driver's seat
- InoFix bracket for securely attaching the systems to the rear seat of the vehicle
- Integration of special automotive data bus solutions for the desired application
- Integration of FPGA cards
- Uninterruptible power supply (UPS) for bridging faults in the power grid partner network to realize your individual requirements and wishes

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