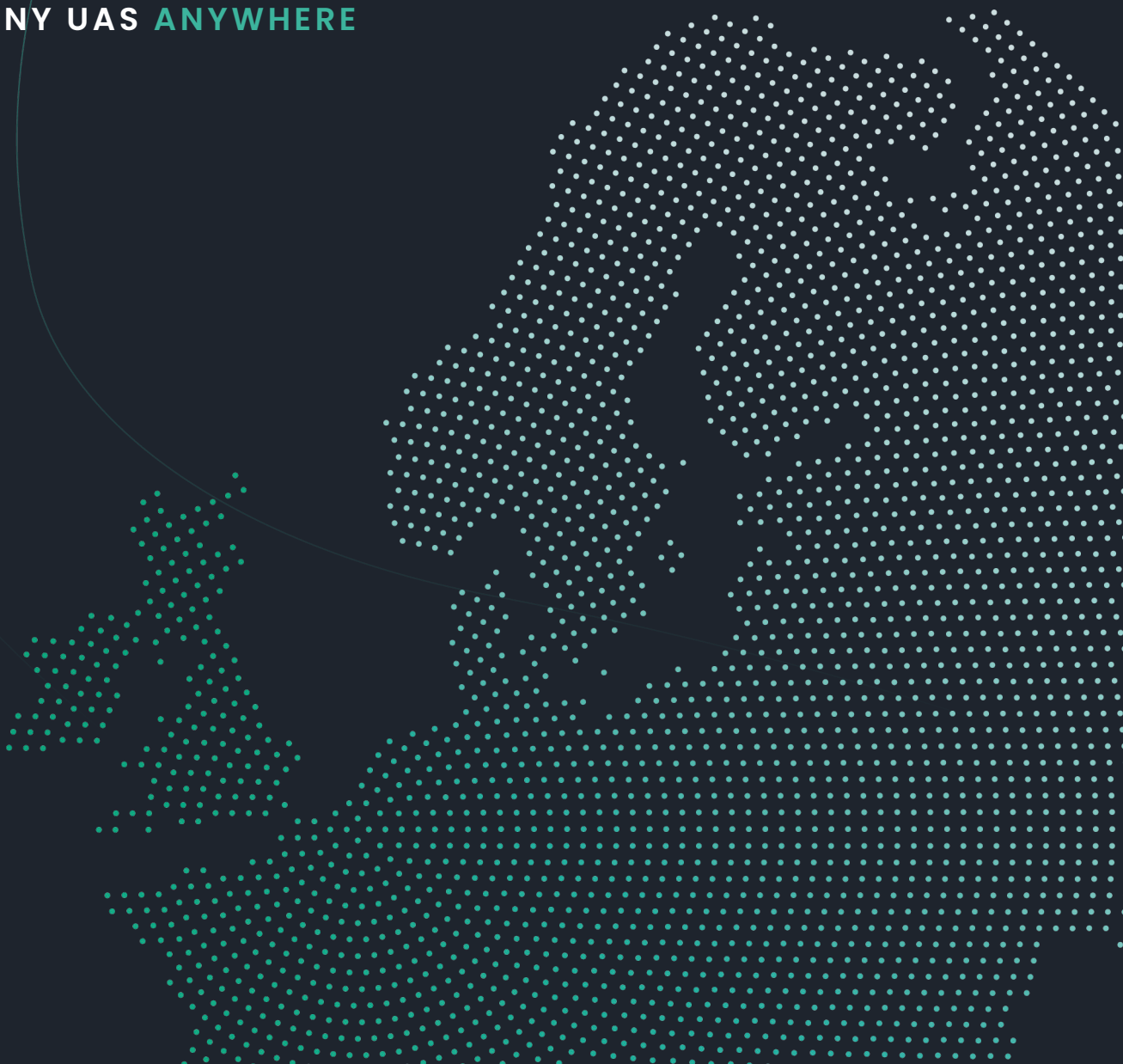
VYDAR FORGE

FLY ANY UAS ANYWHERE



The Most Advanced AI- applications on Fully European made Hardware

The Vydar Forge module enables any AI mission to be completed on, UAV, VTOL or PGM. GPS denied navigation, terminal guidance, drone interception or ISTAR. It is the only AI module that runs on 100% custom European made hardware. Giving operators a huge strategic advantage by having no reliability on foreign hardware when it comes to supply availability and scalability when it comes to pricing.

No GPS, just as accurate

The module acts as a standard GPS-module, feeding the flight controller GPS-coordinates through a standard USB-C/UART connection. It generates a GPS-coordinate by using AI, visual data and sensor fusion. Vydar has full control over the hardware design, the AI-software and it's capabilities, resulting in a module that can be tailored made for any GPS-denied mission anyone could require.

Nvidia alternative at raspberry cost

Vydar builds application-specific AI hardware optimized for size, weight, power, and cost, delivering NVIDIA Jetson accuracy and speed at a Raspberry Pi price. The Forge platform combines high performance with modular, economically scalable design, capable of mass production at up to 10,000 units per week, while also supporting smaller, mission-specific configurations tailored for altitude, precision, and specialized operational needs. This approach enhances reliability, supply-chain availability, and overall efficiency while significantly reducing cost, size, and power consumption.

GNSS-Denied Navigation

Fly Any UAS Anywhere

Our technology is engineered to keep us at the forefront of innovation in the defence industry. Built for large-scale production at low cost, all components are 100% European-sourced and manufactured, ensuring zero external dependencies.

Forged to navigate
Technical Specifications

Forge for FPV's

This Forge module is designed for GPS-denied missions on FPV platforms and large scale production. At Vydar, it is possible to order as much as 10.000 Forged for Navigation modules per week.

Size	45mm x 45mm x 10mm
Weight	30 grams
Power	3W
Performance	<20m accuracy
Update rate	>5Hz
Communication	MAVLINK
Range	Unlimited
Altitude	20m - 200m
Costs	**€600 - €200**

Forge for Fixed-wings

This Forge module is designed for GPS-denied missions on fixed-wing platforms and large scale production. Long and short range fixed-wing platforms, mission independent. At Vydar, it is possible to order as much as 10.000 Forged for Navigation modules per week.

Size	45mm x 45mm x 20mm
Weight	30 grams
Power	3W
Performance	<20m accuracy
Update rate	>2Hz
Communication	MAVLINK
Temperature range	-40 °C to +85 °C
Altitude	160m - 5km
Costs	**€2000 - €600**

Forge for Interceptors

This Forge module is designed for interceptor drones and rockets. Equipped with AI for last-mile targeting, object identification, image tracking and terminal guidance.

Size	45mm x 45mm x 20mm
Weight	30 grams
Power	3W
Detection range	800m
Update rate	30Hz - 60Hz
Communication	MAVLINK
Temperature range	-40 °C to +85 °C
Costs	**€1000 - €600**

Forge for Missiles

This Forge module is engineered for precision guidance on advanced missile systems. Designed for the most demanding operational profiles, it integrates seamlessly across short and long range platforms — mission and warhead-class independent. At Vydar, each module is purpose-built to the exact specifications of your programme.

Size	TBD
Weight	TBD
Power	TBD
Performance	TBD
Update rate	TBD
Communication	TBD
Temperature range	TBD
Altitude	TBD
Costs	TBD

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