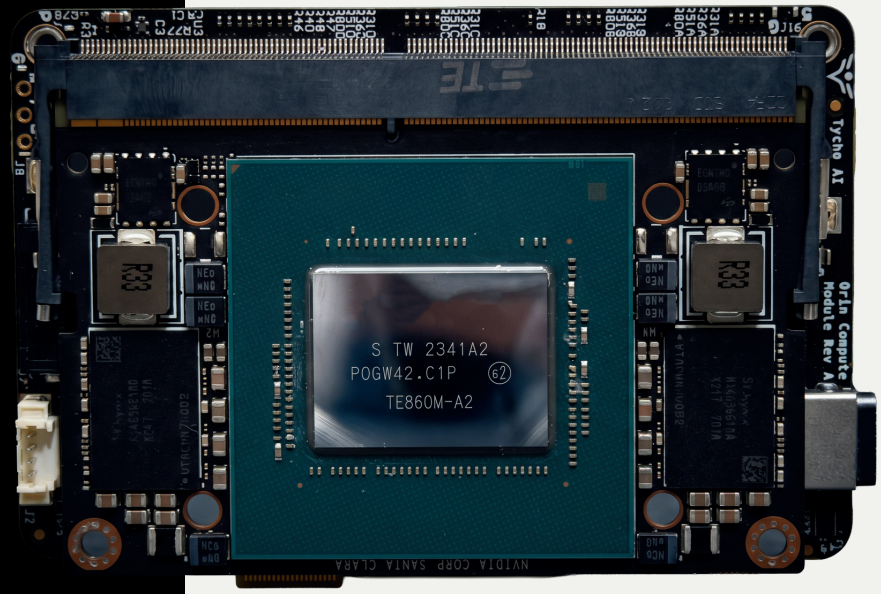
TYCHO.AI



HORIZON

HARDWARE AND SOFTWARE STACK FOR **FULL AUTONOMY**

Horizon is a vertically-integrated hardware/software platform that runs full autonomy in denied and contested environments, using visual-inertial navigation, obstacle detection and avoidance, 3D mapping, ATR, and AI-enabled compression.

HORIZON AUTONOMY STACK

ANY MISSION. ANY PLATFORM. ANY ENVIRONMENT.

[HORIZON APPLICATIONS]

Horizon:NAVIGATION	Visual-inertial navigation at all altitudes and challenging environments, including close-to-ground, under canopy, and over open water
Horizon:AWARENESS	Real-time obstacle avoidance to enable high-speed, low-altitude nap-of-the-earth flight and real-time scene understanding for landing-site identification and mission-critical perception
Horizon:ATR	AI-powered Automatic Target Recognition (ATR) to identify and intercept threats mid-air or on the ground with speed and reliability
Horizon:MAPPING	Scout locations, assess battlefields, and plan missions with rapid 3D scene generation and mapping
Horizon:VISION	AI image and telemetry compression providing ultra-low-latency, low-bandwidth flight and visual data transfer via low-bandwidth radio or satellite link for reconnaissance, target confirmation, or remote FPV flight

Seamlessly integrate Horizon on your vehicle platform for **scalable, agile full autonomy**, enabling low-altitude, high-speed flight navigation and autonomous edge decision-making in GPS-denied and comms-degraded and contested environments.

CONNECT

tycho.ai

linkedin.com/company/tycho-ai

info@tycho.ai

Cambridge, MA