

Vision Guard 15th Gen Mobile NUC with vPro - IP66

Edge AI

Fanless • Passively cooled

IP66

Fanless Edge AI surveillance platform



Product Overview

The VG-15MV-66 is a complete Edge AI surveillance platform that combines compute, camera power, and outdoor deployment into a single integrated system. Unlike traditional installations that require separate cabinets, switches, and power distribution equipment, it integrates compute, networking, and Power-over-Ethernet (PoE) camera connectivity within a single IP66-rated enclosure. Designed for outdoor and harsh-environment deployments, it enables local processing, connectivity, and flexible installation wherever only a raw mains power feed is available, such as lamp posts, roadside infrastructure, and utility poles, eliminating the need for external power-conversion equipment or cabinets.

Built around an Intel Core Ultra NUC-class compute module, the platform provides the CPU and GPU performance required for demanding edge AI and video analytics workloads. The enclosure supports direct camera mounting, with multiple attachment points compatible with a range of fixed and PTZ cameras. Two external IP66-rated PoE RJ45 ports provide power and network connectivity for up to three IP cameras from a single unit, removing the need for separate PoE switches or injectors at the installation point.

With a fully sealed, fanless, passively cooled design, a wide operating temperature range, and protected power and I/O interfaces, the VG-15MV-66 is engineered for permanent outdoor installation, delivering reliable, low-maintenance operation in demanding environments.

Key Specifications

- Intel Core Ultra 5 225H
- Dual 2.5GbE LAN
- AI capabilities for real time monitoring
- Compact and Rugged
- Designed for continuous operation

Key benefits of FANLESS and RUGGED



No fans obviously means no noise, but it's not the only benefit!



No fans allow an important decrease in power consumption, making our products more sustainable!



A fanless computer eliminates the risk to draw in dust and dirt from the environment, the cause of potential failures and costly downtime.



The absence of moving parts enable our products to resist shocks and vibrations, for an increased reliability.



They are built to withstand harsh and constrained working conditions.



High Ingress Protection (IP) rating, indicating the protection level of products against both solid and liquids in electrical enclosures.



The in-house designed and milled aluminium chassis is optimized for efficient passive cooling and durability. Its conception proved their reliability in extended operating temperatures.



The aluminium used for the chassis production is repurposed and recycled, and the production waste is recycled too!

SOLUTION FAMILY

Tranquil AI - AI Compute platforms

Tranquil AI by 2CRSi Edge combines best-in-class AI processing technology with industrial-grade engineering, enabling organisations to deploy powerful AI solutions outside the datacentre. Designed and assembled in the UK, Tranquil AI platforms transform AI development hardware into deployable production systems suitable for industrial, transport, security, smart-city and infrastructure applications. Fanless operation, rugged construction and configurable deployment options allow customers to move from proof-of-concept to production without redesigning their AI infrastructure.

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Technical Specification

Processor	Intel® Core™ Ultra 225H (4P+8E)		
Memory	Capacity: 2 x 262-pin SO-DIMM MAX Capacity: 96GB Type: Dual Channel DDR5 6400 MHz ECC Support: No	Storage	Storage 1 Max: 4TB M.2 NVMe 2242 SSD (PCIe Gen4 x4) or Axelera Metis M.2 AI inference accelerator Storage 2 Max: 8TB 2.5" SATA SSD (SATA III 6.0 Gb/s)
AI Accelerator	Optional: Axelera Metis M.2 AI inference	AI Performance	Up to 214 TOPS (with Axelera Metis option)
Graphics	Intel® Arc™ 130T graphics	Graphics	1 x HDMI 2.1 TMDS max resolution up to 4096 x 2160 @ 60Hz
Network Interface	LAN1: Access to internal POE switch LAN2: Access to internal POE switch LAN3: Access to internal POE switch (90w POE over 3 ports) LAN4: Motherboards Intel® I226V with 10/100/1000/2500 Mbps	Network Options	4G via M.2 expansion Wi-fi 6 with AP (access point) capability
Network Feature	Wake-On-Lan PXE or UEFI PXE	Remote Management	4G remote access
Hardware Monitoring	Watchdog On-Board	Supported OS	Windows 11 Windows 10 Linux
Encryption	fTPM 2.0 (Intel PTT)		
Power Input	IP68 Buccaneer 4000 3-pin Power Socket		
Input Voltage	12-24V		
Consumption	TBD		

Physical Specification

I/O Front	Power/reset switch	LED Front	Power
I/O Rear	IP68 Power Socket, Behind Panel Entry, 2x RJ45 for LAN, 2x USB 3.1 Gen1, 1x USB-C, 1x HDMI	LED Rear	-
Operational Temp	-20c to 70c (-4F to 158F)	Storage Temp	-40c to 85c (-40F to 185F)
Maximum relative humidity	5% to 90%	Cooling Type	Passive Cooling
Size	55 x 358 x 214 mm	Weight	7 KG
Accessories	IP66 Power Cord	Optional Accessories	Wireless Antenna
Mounting	Pole and wall mount (mounting compatibility with several market leading fixed and PTZ cameras)	Warranty	3 Years
Certifications	CEUKCARoHSFCCWEEE		



Configuration options (OS, branding, software preload) are available and do not alter the certified platform baseline. For bespoke requirements requiring engineering change, enquire about Tranquil Studio.