



POLYSTACK



STAQ R2

RUGGEDIZED EDGE COMPUTING DEVICE
FOR VIDEO ANALYTICS ▶▶▶



polystack.tech

UNMATCHED FEATURES

01

Artificial Intelligence

Real-time Video Incident Detection with High-Speed real-time video processing capabilities using x86 or Nvidia GPUs for AI based video analysis and automated incident alerts.

02

Computing Power

Quad Core x86 / Nvidia processor, delivers lightning-fast data analysis, making complex computations easy. It runs intensive video analytics and make real-time decisions.

03

High Storage Capacity

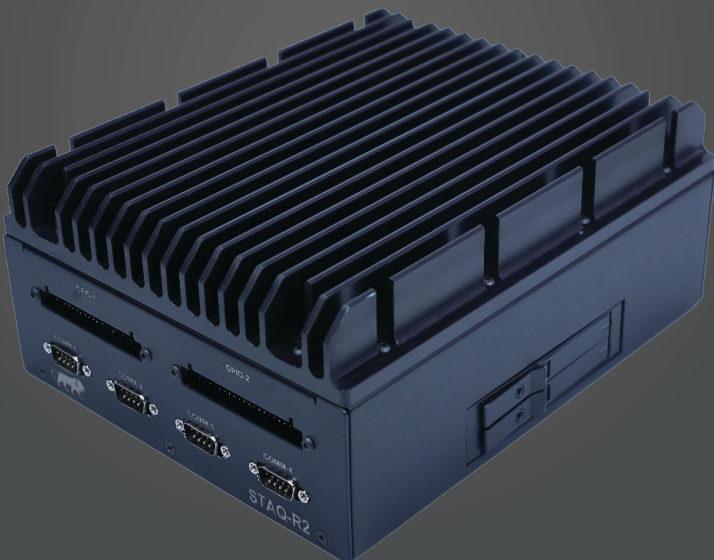
Scalable on-device storage permits local storage of up to 4 HD camera-feeds running 24x7 for more than 240 days.

04

IoT & Edge Computing

Staq R2 embeds significant computing capabilities for running resource-intensive applications on the edge and can be integrated with any type of sensor for enabling Industry 4.0 solutions.

Unlock Smart
Video Analytics
with **STAQ R2!**



05

Rugged & Industrial Design

Staq-R2 devices are designed for Indian ambient temperatures that reach up to 50°C. It can withstand high degrees of shock, vibrations and are ready to be deployed in harsh environments.

06

ESG Compliant

Staq R2 complies with SEBI's Environment, Social, and Governance mandates, meeting sustainability standards and committing to ethical practices. Embrace technology aligned with your values and contribute to the community.

07

Inbuilt PoE Switch

Staq-R2 devices have an inbuilt PoE Switch that can power four cameras simultaneously. This feature simplifies camera installation and feed integration for large scale deployment in difficult environments.

Our Benefits



Customization for
unique needs.



Versatile
Connectivity



Mission-critical
Applications



Electro Magnetic
Resilience



Uninterrupted
Power Supply

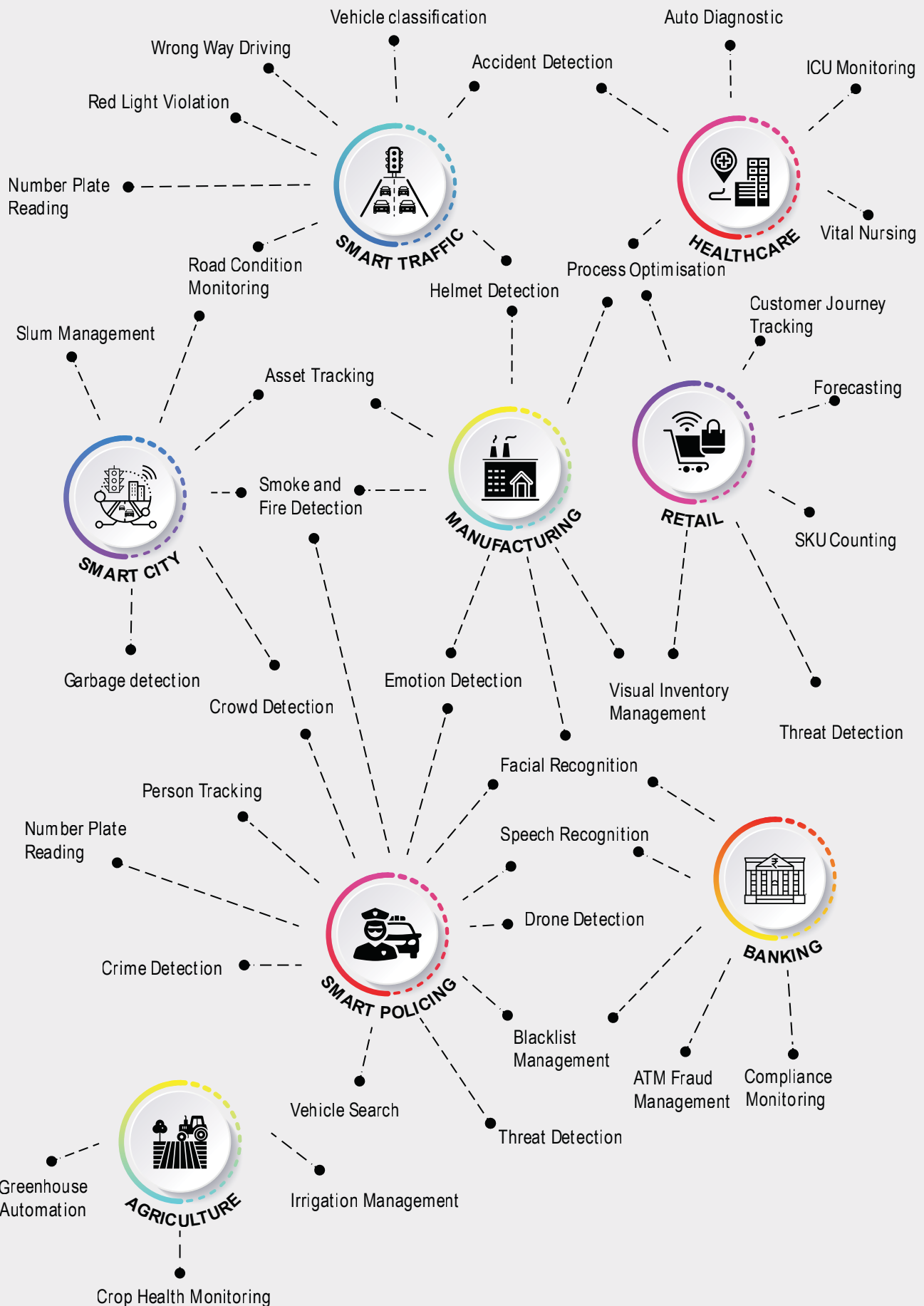


Easy And Hassle
Free installation



TAILORED TO YOUR
SPECIFIC REQUIREMENTS.

USE CASES



DETAILED SPECIFICATIONS

Series	CPU	Memory	Display	Storage expansion	Interface Function	Ethernet	Working Temperature and humidity	Storage Temperature and humidity
R2 -A-1001	Intel® Core™ i5, (13th Gen-1340P and 12th Gen-1240P) Processor	2 x DDR5 SO-DIMM, total maximum 64 GB	1 x DP and 1 x HDMI or similar configuration	Supports 2.5 inch SSD upto 8 TB	3 x USB3.0, 2 x Type-C , interface (DP 4K@60Hz)	2 x 2.5 GbE LAN	Temperature: -20°C ~ +60°C; and Humidity: 5% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 5% ~ 90%
R2 -B1001	Intel I9 12th Gen - 12900H, Intel I7 12th Gen (12700H, 1260P, 1265U), Intel I5 12th Gen (12500H, 1240P, 1245U), Intel I3 12th Gen (12300H, 1220P, 1215U), Intel celeron 7305.	1 x DDR4 3200MHz SO-DIMM, total maximum 32GB	1 x VGA, 1 x HDMI2.0 or similar configuration		2 x USB3.1, 4 x USB2.0, 4 X COM (RS-232)	3 x 1 GbE LAN		
R2 -C1001	Intel Ultra 7 Processor 155U, Intel Ultra 7 Processor 155H, Intel Ultra 5 Processor 125U.	2 x DDR5 SO-DIMM, total maximum 96GB	1 x HDMI2.1, 1x Mini DP2.1 or similar configuration		3 x USB3.1, 1 x USB2.0, 1 x TYPE-C	2 x 2.5 GbE LAN		
R2 -D1001	Intel Ultra 7 Processor 155U, Intel Ultra 7 Processor 155H, Intel Ultra 5 Processor 125U.		1 x HDMI, 1 x DP and 1 x VGA or similar configuration	2 x 2.5inch SATA Hot-Swap Bays	4 x USB 3.0, 4 x COM PORTS (RS-232)		Temperature: -20°C ~ +70°C; and Humidity: 0% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 0% ~ 90%
R2 -E1001	Intel I7 13th Gen - 1360P, Intel I7 12th Gen - 1260P, Intel I5 13th Gen - 1340P, Intel I5 12th Gen - 1240P, Intel I3 13th Gen - 1320PE, Intel I3 12th Gen - 1220P,	2 x DDR5 SO-DIMM, total maximum 64 GB	1 x HDMI 2.0, 1 x DP or similar configuration	Supports 2.5 inch SSD upto 8 TB	3 x USB 3.1, 1X USB2.0, 1 x Type-C, interface (DP 8K@60Hz + USB3.2)	6 x 2.5 GbE LAN, 1 x CONSOLE	Temperature: -20°C ~ +60°C; and Humidity: 5% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 5% ~ 90%
R2 -F1001	Intel I7 13th Generation i7-1365URE, Intel I5 13th Generation i5-1345URE, Intel I3 13th Generation i3-1315URE.	2 x DDR4 SO-DIMM, total maximum 64 GB	1 x HDMI 2.0a, 1 x DP 1.4a or similar configuration		2 x USB 3.2, 2 x Type-C, interface (DP 8K@60Hz + USB3.2)	1 x 2.5 GbE LAN, 1 x 1 GbE LAN.	Temperature: -20°C ~ +85°C; and Humidity: 5% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 5% ~ 90%
R2- G1001	AMD Ryzen™ 7 8840U , AMD Ryzen™ 5 8640U	2 x DDR5 SO-DIMM, total maximum 96 GB	2 x HDMI	2 x 2.5inch SATA Hot-Swap Bays	1 x USB 3.2, 2 x USB 2.0, 2 x Type-C, 5V/3A, supports DP1.4a display output		Temperature: -20°C ~ +70°C; and Humidity: 0% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 0% ~ 90%
R2- H1001	Intel® Core™ I9, Intel® Core™ I7, Intel® Core™ I5, Intel® Core™ I3,	2 x DDR5 SO-DIMM, total maximum 64 GB	1 x HDMI, 1 x DP and 1 x VGA or similar configuration		4 x USB 3.2, 4 x USB 2.0, 1 x COM PORTS (RS-232) 1 x DB9	2 x 1 GbE LAN	Temperature: -20°C ~ +60°C; and Humidity: 5% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 5% ~ 90%
R2- I1001	Intel I7 12th Generation i7-1265URE, Intel I5 12th Generation i5-1245URE, Intel I3 12th Generation i3-1215URE.	2 x DDR4 3200MHz SO-DIMM, total maximum 64GB	1 x HDMI 2.0 or similar configuration	Supports 2.5 inch SSD upto 8 TB	2 x USB 3.0, 1 x USB2.0, 8 x 10/100Mbps PoE ports	1 x 2.5 GbE LAN	Temperature: -20°C ~ +70°C; and Humidity: 0% ~ 90%	Temperature : -40°C ~ +85°C; and Humidity: 0% ~ 90%

Base Configurations

Chassis	Sheet Metal Chassis
Primary Storage	1 x M.2 Key-M 2280 with 512GB to 8TB NVMe SSD
Cooling System	Aluminium Heat-Sink, Optional: PWM Fan
Input Power	DC-IN, External Adapter Voltage Input: 100VAC~240VAC
Certifications	All variants are BIS & MIL 810 G Certified
Operating system support	Linux, Windows
Dimensions	230 mm X 187 mm X 100 mm (LXBXH)
Connectivity	Wi-Fi 6 / Bluetooth 5.2

STAQ R2



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