EDGE ON-DEVICE

AI

An end-to-end solution on appliances to make all camera smart (finally!)

Pitch

PHOENIX Ai

EDGE ON-DEVICE AI - INTELLIGENT VIDEO ANALYTICS

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FOR DISTRIBUTORS,
INTEGRATORS AND OEM
PARTNERSHIPS

Smart Cities ꟷ Security ꟷ Smart Buildings ꟷ Industry 4.0 ꟷ Public Cleanliness ꟷ Transports ꟷ …

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Vision, Mission, Market Problems Solving

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Vision & Mission

- Our Vision : Become a leader for embedded AI powered management in camera networks with a Green vantage point.

- Our Mission: We associate AI with video cameras to enable intelligent and efficient monitoring, intelligent analytics and decision-making to enhance productivity, security and safety.

Problem Solving

✓ Bring AI to existing IP cameras (or with embedded cameras) where

infrastructure changes

and bandwidth is an issue thanks to a dedicated Edge product offering.

✓ Make vision predictions and detections at the camera side and only

output results as alerts

✓ Ready to be integrated into existing Big Data Enrichment Systems

✓ Supply an all-in-one standalone AI driven detection system to

complement any camera

Which AI models for which customer segment ?

Main Industries	Smart Cities	Smart Traffic	Smart Security / Safety	Smart Manufacturing	Smart Broadcast
Typical Applications	- Public safety in public Area - Waste detection - Grafitti detection - Parking management - Energy management	Traffic Management of: - Cars & trucks (highway, tunnel, one way road, ..) - Boats & ships - Trains & metro (railcrossing, platform safety)	- Intrusion detection - Loitering detection - Crowd management (counting..) - People detection (eg. home patient monitoring)	- Quality inspection (defaults detection and tracking) - Live Measurements - Object detection	- Ad banner replacement (in football games) - Players/referee segmentation for video enhancement
Typical Customers	EU (B2P), SI,OEM	EU (B2P, B2B), SI,OEM	EU(B2B), SI,OEM	EU(B2B), SI, OEM	EU(B2B), SI, OEM

Some AI Examples

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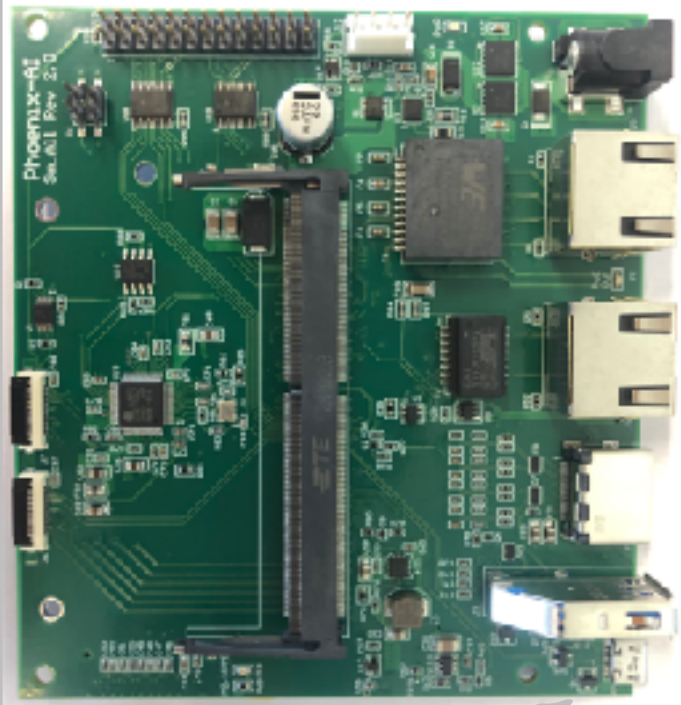EDGE ON-DEVICE AI - INTELLIGENT VIDEO ANALYTICS
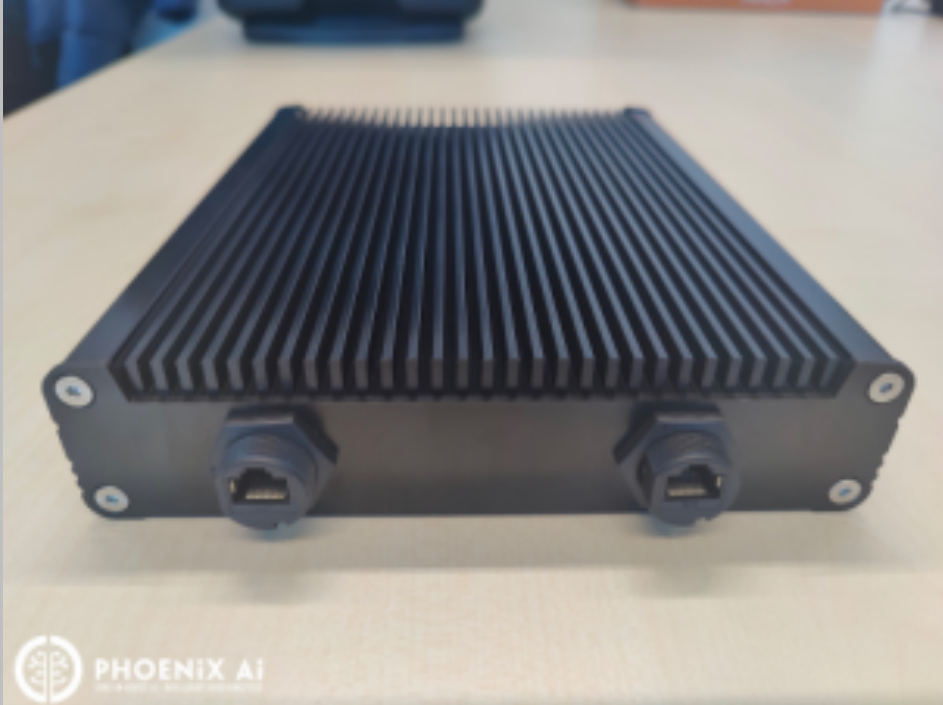
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Product Portfolio
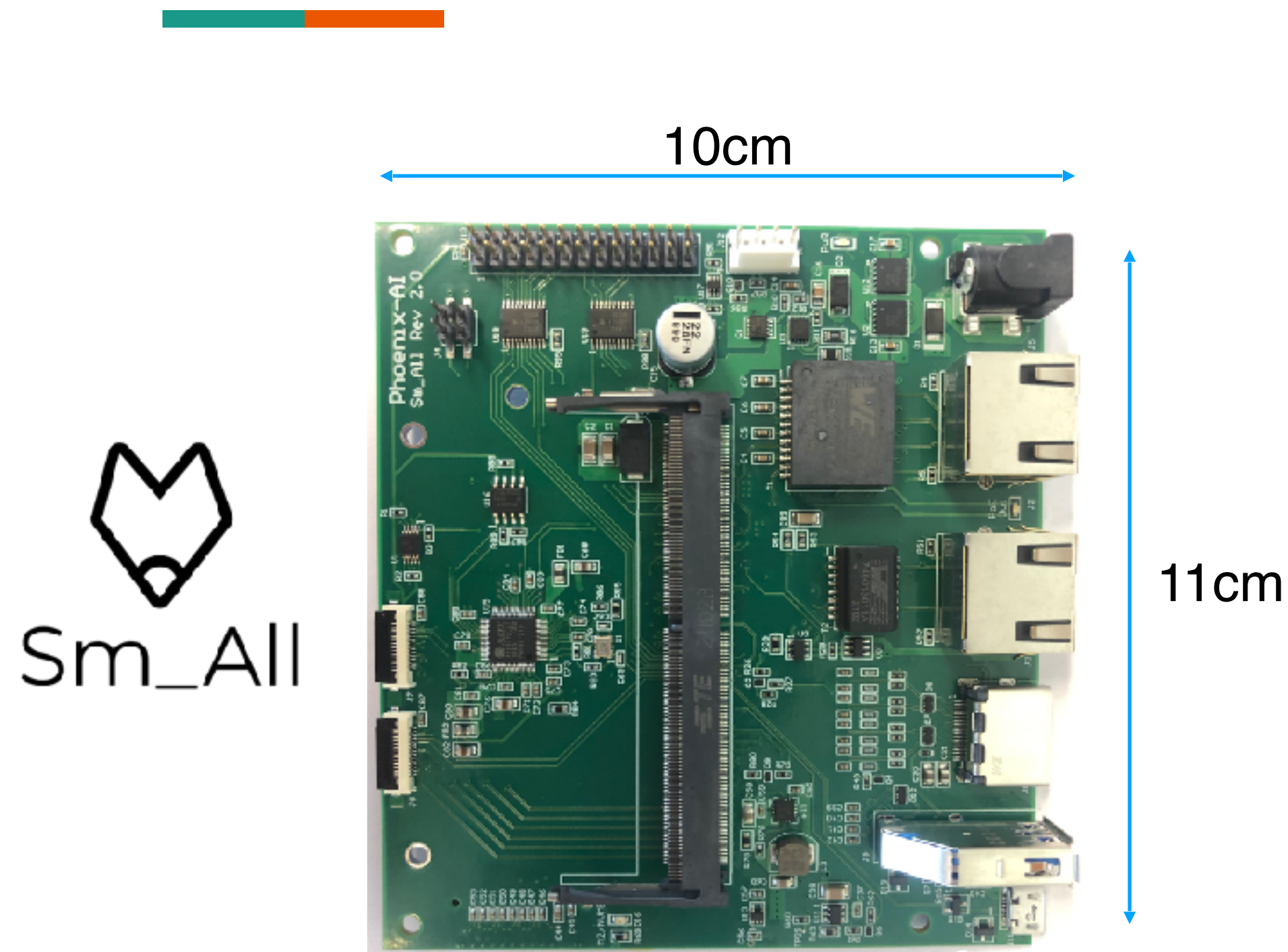
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Which product for which personas ?

Product Line	Sm_All	Sm_All boxed	Smart Camera
Product Line			
Usage purpose	Cost effective however requires some integration	Low integration required in case of outdoor usage	No integration, straightforward to install and configure
Customer Persona	SIs,OEM	End Users(Private, Public), SIs	End users(Private, Public)

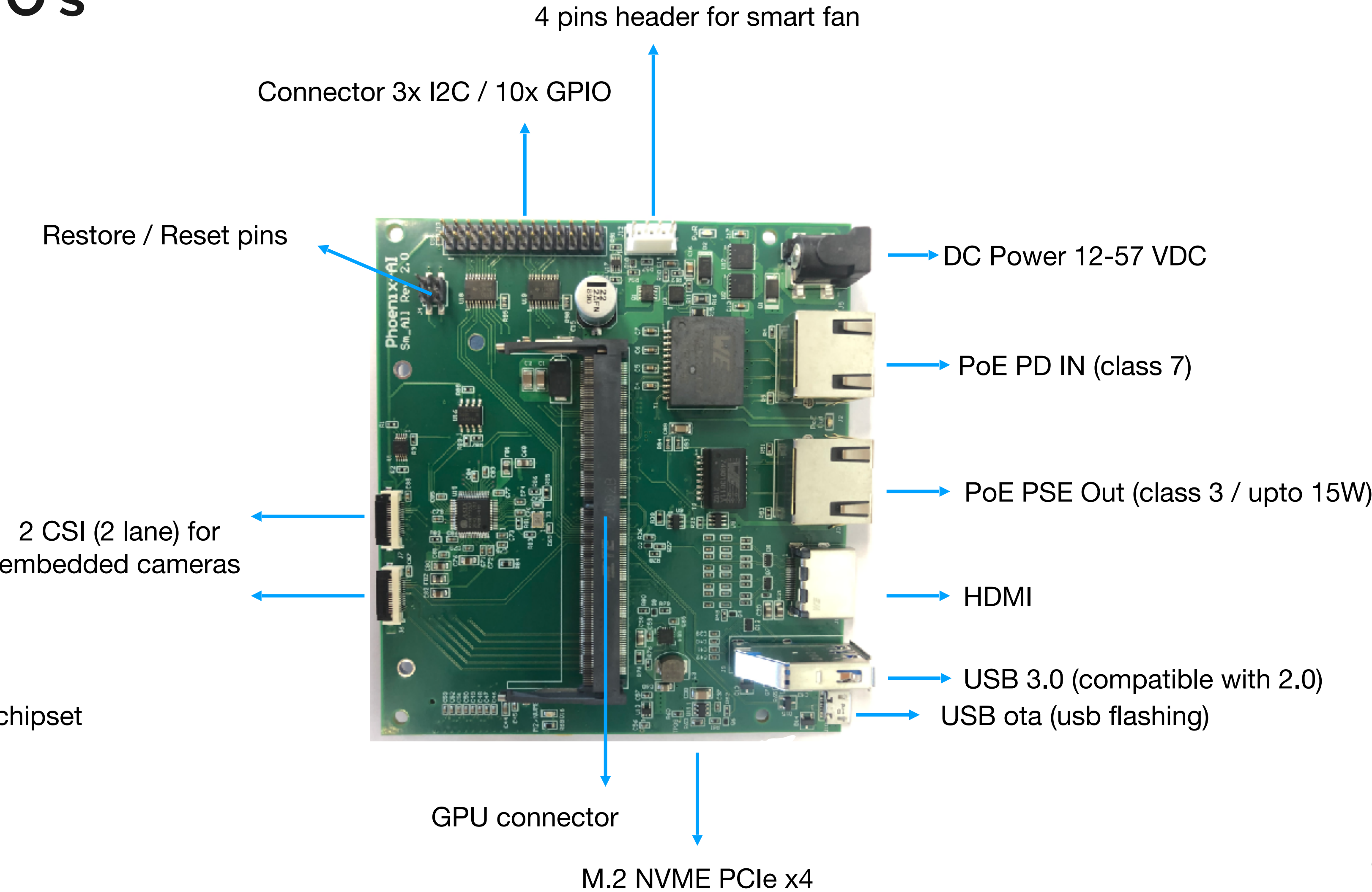# 1) Sm_All : Basic building block of our product portfolio

10cm

11cm

Main Features

✔ Real-time detections (up to 4 simultaneously) with IVA (Intelligent Video Analytics)

✔ Multi-AI platform with possibility of selection of the AI model

✔ Two models available : Nano (1 camera) and Xavier (4 cameras)
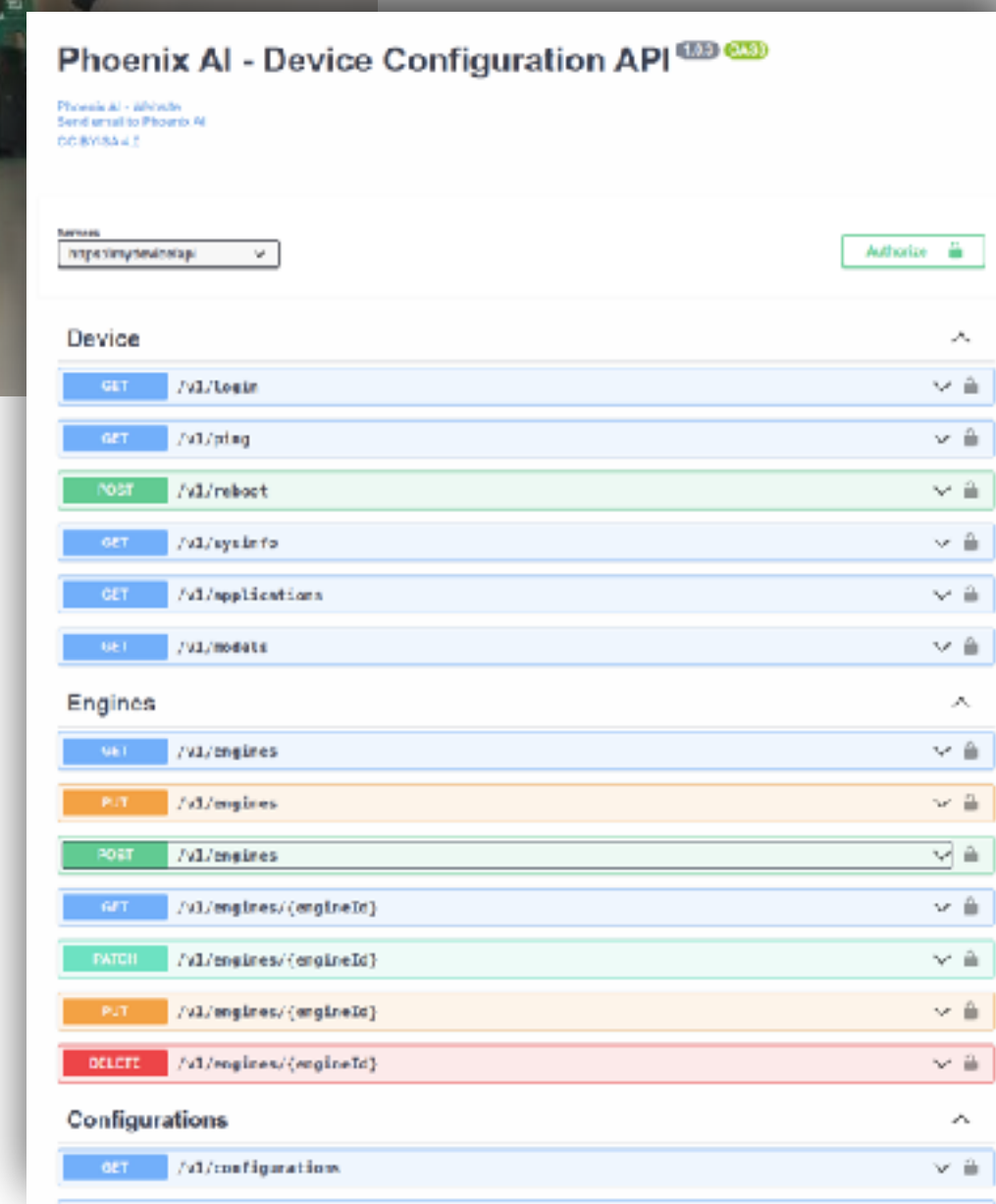
✔ Low consumption: 6 to 22 watts

Sm_All : I/O's

4 pins header for smart fan

Connector 3x I2C / 10x GPIO

Restore / Reset pins

DC Power 12-57 VDC

PoE PD IN (class 7)

PoE PSE Out (class 3 / upto 15W)

2 CSI (2 lane) for embedded cameras

HDMI

USB 3.0 (compatible with 2.0)

USB ota (usb flashing)

Optional : embedded GPS chipset

GPU connector

M.2 NVME PCIe x4

Sm_All
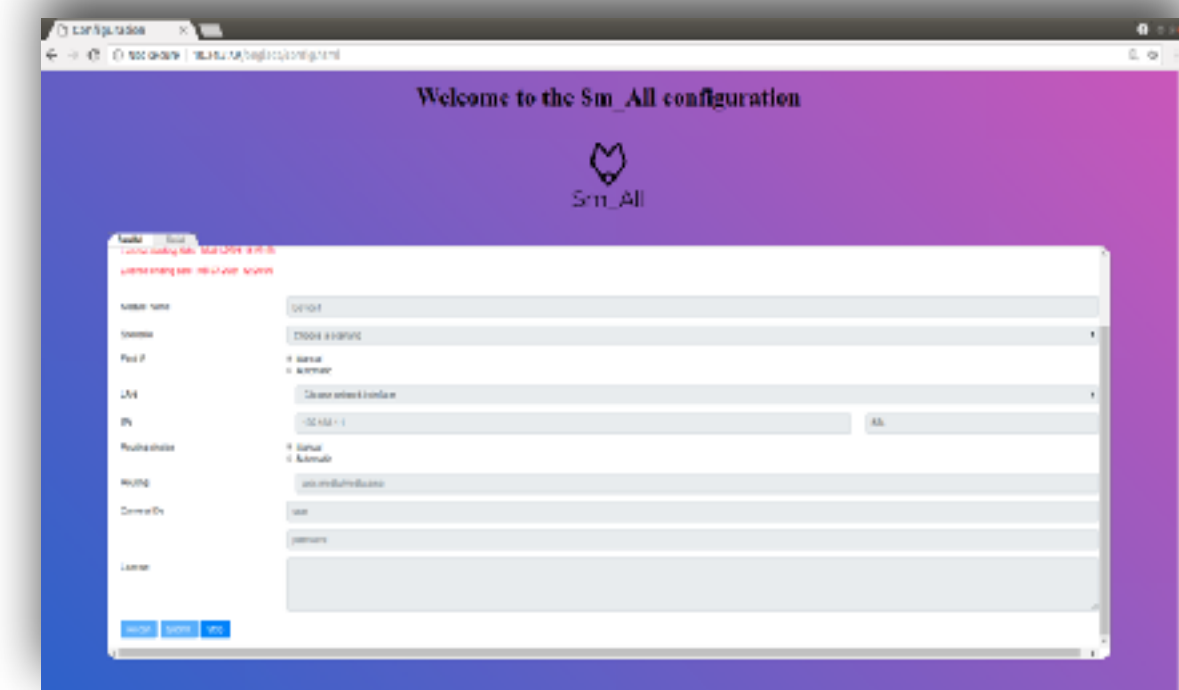
Sm_All: Software In a Nutshell

Main Features
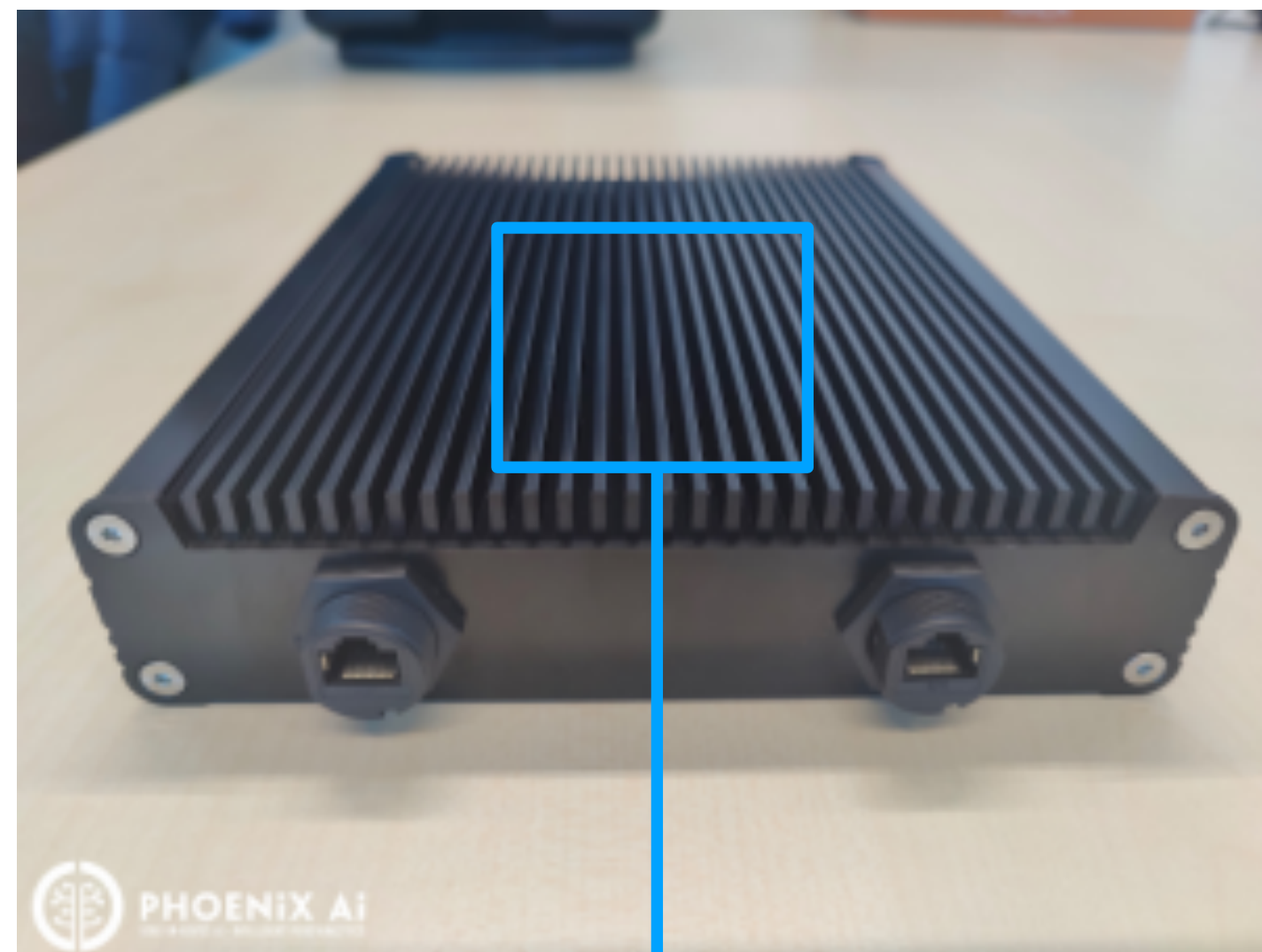

✔ Ubuntu Linux

✔ Automatic Network & camera Discovery

✔ RSTP Protocol compliant

✔ JSON Server / Client

✔ Open Horizon Client

✔ VPN Client

✔ IEEE 802.1x compliant

2) Sm_All Boxed

Sm_All

Main Operating Features

✓ Up to 4 camera streams supported (four models)

✓ Simultaneous detections AI & deep learning for each stream.

✓ PoE in and out for one camera

- Dimensions W 187 x H 44 x D 240 mm, weight 1.5 Kg

- Passive dissipation (no fan)

NVIDIA. PREFERRED SOLUTION PROVIDER

3) Smart Camera

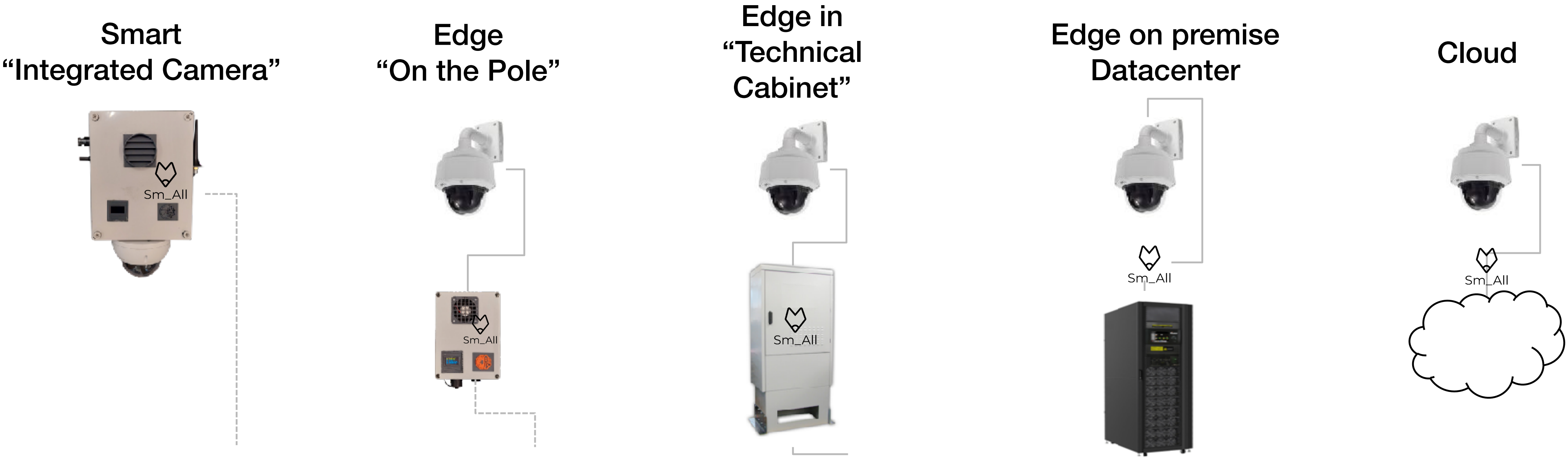# Main Operating Features
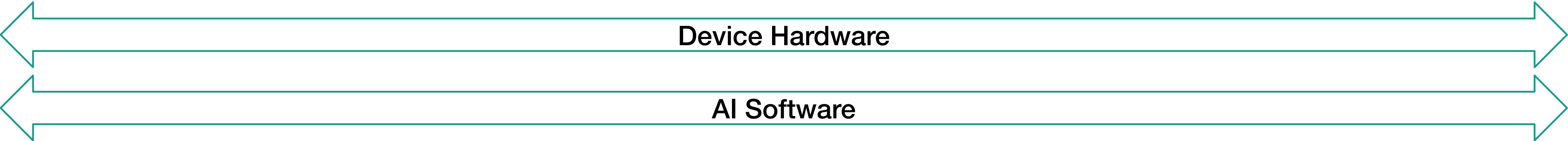
✓ Outdoor (IP66) Camera with Embedded AI

✓ Upto 4 AI models supported

✓ Cellular connectivity (4G) and GPS

✓ Power supply: ext., batteries and/or solar panels.

✓ Cloud Connection for firmware update and model improvement

- Dimensions : 455 * 200 * 200 mm, weight : 3,5 KG (wo battery)

- Temperature range: from -20°C to 60°C, 10 to 95% relative humidity

Typical Network Architecture(s)

Smart "Integrated Camera"

Edge "On the Pole"

Edge in "Technical Cabinet"

Edge on premise Datacenter

Cloud

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Sm_All

Sm_All

Phoenix AI Edge Device

Device Hardware

AI Software

Third-Parties Connections

✓ **Compatible with IBM Maximo**

✓ **Compatible with Microsoft Azure**

✓ **Compatible with AWS Green Grass & Sagemaker**

✓ **Compatible with Milestone Xprotect, ongoing integration with Genetec (Q3/2023)**

Sm_All : Open, versatile and flexible

Phoenix AI

Contact : info@phoenix-ai.com
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www.phoenix-ai.com

Integration by

Securitas

Sm_All

A 15W pocket-size AI super Power with abilities to handle IP cameras

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NVIDIA.