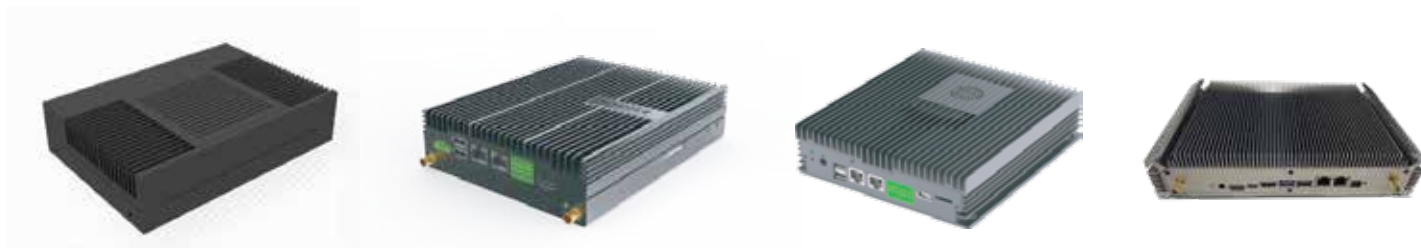


INTELLIGENT EDGE ANALYSIS ALL-IN-ONE MACHINE



XEN-AI-SG-32

XEN-AI-SG-16

XEN-AI-SG-08

XEN-AI-SG-04

The Xenus AI edge intelligent analysis device adopts the latest high-performance NPU intelligent chip that can achieve a maximum computing power of 32 TOPS (INT8).

The Xenus AI intelligent algorithm covers various algorithms for scenarios such as parks, communities, construction sites and campuses which can be flexibly combined and configured according to specific needs.

The video intelligent comprehensive management platform supports front-end device management, real-time video preview, alarm pushing, evidence capture, online loading and optimization of algorithms, data situation analysis for large screen display – with a simple device operation and plug-and-play capability.

Additionally, the device has rich northbound API interfaces to empower large-scale upper-level business applications.

PRODUCT FEATURES

Type	XEN-AI-SG-32	XEN-AI-SG-16	XEN-AI-SG-08	XEN-AI-SG-04
Performance Specifications	32 TOPS INT8 peak computing power 32Ch Real Time Intelligent Video Analysis 32Ch H.265 / H.264 : 1080p @ 25 fps Video decoding 12Ch H.265 / H.264 : 1080p @ 25 fps Video coding	17.6 TOPS INT8 peak computing power 16Ch Real Time Intelligent Video Analysis 32Ch H.265 / H.264 : 1080p @ 25 fps Video decoding 2Ch H.265 / H.264: 1080p@ 25 fps Video coding	10.6 TOPS INT8 peak computing power 8Ch Real Time Intelligent Video Analysis 8Ch H.265 / H.264: 1080p @ 25 fps Video decoding 1Ch H.265 / H.264: 1080p @ 25 fps Video coding	6 TOPS computing power peak 4Ch Real Time Video Analysis 4Ch H.265 / H.264: 1080p @ 25 fps Video decoding - Memory : 8 Gb Storage : 128 Gb eMMC
Product Highlights	- Supports loading up to 3 different algorithms simultaneously with a single camera. - Supports for camera intelligent round robin mode. - Supports up to 32 cameras, executing 32 analysis tasks simultaneously. If the number of analysis tasks exceeds 32, they can be cycled through. - Based on INT8 high-precision quantization, it has higher throughput and energy efficiency compared to mainstream intelligent computing platforms in the industry. - Adaptable to a variety of high-precision AI algorithms, providing a cost-effective edge computing solution tailored for intelligent communities, smart parks, and smart construction sites, among other industry scenarios. - Supports Caffe / TF / Pytorch / Mxnet / Padde, mainstream network model supports, and custom operator development. Supports Docker containerization for rapid deployment of algorithm applications.			

Type	XEN-AI-SG-32	XEN-AI-SG-16	XEN-AI-SG-08	XEN-AI-SG-04
Intelligent Algorithms	Face Recognition / Fire detection / Smoke detection / Smoking detection / Phone usage detection / Personnel using mobile phones detection / Mask-wearing detection / Personnel leaving or sleeping on duty detection / Personnel falling detection / Personnel static elimination / Area people counting / Area intrusion detection / Uniform detection / Helmet detection / Safety helmet and reflective clothing detection / Electric scooter detection / Standardized parking (illegal parking detection) / Entrance and exit passenger flow statistics / Perimeter climbing intrusion / Abnormal displacement / Safety net hanging detection and other algorithms			

APPLICATION SCENARIO



Smart
Community



Smart
Industrial Park



Smart
Construction Site



Smart
Campus



Smart
Gas Station



Smart
Factory



Smart
Grid

PRODUCT PARAMETERS

Type	XEN-AI-SG-32	XEN-AI-SG-16	XEN-AI-SG-08	XEN-AI-SG-04
CPU	8 core ARM A53 @ 2.3 GHz	8 core ARM A53 @ 2.3 GHz	8 core ARM A53 @ 2.3 GHz	Cortex-A76 + Cortex-A55 8 core 2.4 GHz
AI Computing Power	32 TOPS (INT8) 16 TFLOPS (FP 16 / BF 16) 2 TFLOPS (FP 32)	17.6 TOPS (INT8) 2.2 TFLOPS	10.6 TOPS (INT8) 1.3 TFLOPS	6 TOPS peak computing power
Encoding & Decoding	32Ch H.265 / H.264 : 1080p @ 25 fps Video decoding 12Ch H.265 / H.264 : 1080p @ 25fps Video encoding	32Ch H.265 / H.264 : 1080p @ 25 fps Video decoding 2Ch H.265 / H.264 : 1080p @ 25 fps Video encoding	8Ch H.265 / H.264 : 1080p @ 25 fps Video decoding 1Ch H.265 / H.264 : 1080p @ 25 fps Video encoding	8K and Dual 4K Video Coding 4Ch 4K Video decoding
Memory	16 GB	12 GB	6 GB	8 GB
Storage	64 GB eMMC Supports extended storage : - M.2 SATA 3.0 SSD (2242) x 1 - TF card holder x 1	32 GB eMMC	32 GB eMMC	128 GB eMMC
Interface	2.4 GHz / 5 GHz Dual frequency WiFi, 802.11a / b / gn / ac, Scalable 4G LTE (Mini PCIe interface), 5G (M.2 interface), - Support M.2 SATA 3.0 interface Scalable 2242 SATA SSD) x 1 - Support USB 3.0 (Current limiting 1A) x 2 USB 2.0 (Current limiting 500mA) x 2	10 / 100 / 1000 Mbps self-adaption x 2 - Support USB / HDMI / -SA - TA / RS-232 / RS-485 / TF - LTE Optional	1 x 2.5G LAN 1 x UART (Type-C) 1 x Micro SD	- Port 4G, LTE (Mini PCIe) 2242 SATA SSD x 1 - USB 3.0 x 2, USB 2.0 x 1 - RJ45 x 2, 1000M HDM x1
System	Ubuntu Linux system			Debian system
Size	210 × 130 × 44.5 mm	188 × 148 × 44.5 mm	185 × 170 × 43.6 mm	235 × 150 × 62.5 mm

Type	XEN-AI-SG-32	XEN-AI-SG-16	XEN-AI-SG-08	XEN-AI-SG-04
Power Dissipation	20 W		18 W	10 W MAX
Deep Learning Framework	TensorFlow / PyTorch / Paddle / Caffe / ONNX / MXNet / Tengine / DarkNet			
Environment	Working temperature: -20 °C ~ 60 °C			
Software Platform	● Supports switching between basic mode and visualization mode freely. ● Supports 1/9 screen real-time preview function. ● Supports multiple split-screen display functions. ● Supports large-screen display of various types of data analysis. ● Supports closed-loop function for handling alarm events. ● Supports management of various types of front-end devices. ● Supports algorithm configuration management and algorithm analysis task management. ● Supports online installation, loading, and upgrading of algorithms. ● Supports platform logo / name custom configuration. ● Supports loading maps to replace on-site scene images. ● Supports online annotation of monitoring equipment on the map. ● Supports role and permission, user online management. ● Supports detailed parameter configuration of algorithms, detection area ROI / custom label functions (unlimited number of ROIs, ROI polygon configuration).			

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