

HIGH- PERFORMANCE EDGE AI SERVERS

NEXON

**ITAR
FREE**

**ON-THE-GO
TRAINING**

**ULTRA
FAST**



**SEAMLESS
SCALE-UP**

COMPACT

Introducing the NEXON series of edge AI servers dedicated to high-performance inferencing.

The NEXON servers turn Big Data into tiny actionable representations allowing large-scale AI inferences ultra-quickly.

New data can be processed as it is acquired and directly augments the active instances, essentially performing AI training on the go. The entry-level NEXON-1 server features 1200 TOPS-equivalent of AI performance in a lightweight 1U chassis.

This slim product will satisfy time-critical inferencing of transformers, convolutional neural networks and many other advanced machine learning models.

The NEXON servers are ITAR-free, offer power-efficient solutions and computing flexibility with Intel i9 (default), Intel Xeon or ARMv8 processors to handle any pre/post-processing and interface tasks.

The computing capacity scales seamlessly by adding more AI-inferencing support with NEXON-8 and NEXON-16 servers, which are 8x and 16x faster than NEXON-1, respectively. Other AI server capacity is possible and can be custom built on request.

AICRAFT can help customers quantify their Big Data computing requirements and match the server accordingly to save on time, cost, storage space, energy consumption and no hidden charges!



More info
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Key benefits

- World-leading large-scale AI engine
- Training on-the-go
- Ultra-fast Big Data processing
- Compact size
- High operating temperature range (optional)



Technical specifications (NEXON-1 configuration)

Computing performance

Processor	Intel® i9-13900E CPU, 32 threads up to 5.2GHz Turbo
ML co-processor	1200 TOPS peak performance
RAM	64 GB DDR5 with ECC (up to 128 GB)
Storage	4 TB SSD with LPDC ECC (up to 24 TB)

Interfaces

USB 3.2 Gen 2x2	2x 20 Gbps Type-C
USB 3.2 Gen 2x1	2x 10 Gbps Type-A
USB 2.0	2x 480 Mbps Type-A
Ethernet	2x 2.5 Gbps 2x 10 Gbps
Display	3x Display Ports

Software

Operating system	Linux
ML compiler	Supports common frameworks (e.g., Keras, Pytorch, Darknet)

Properties

Power supply	90-264Vac, 47-63 Hz, 115Vac @ 4A or 230Vac @2A
Power consumption	< 350W
Mass	7 kg (approx.)
Dimensions (W x H x D)	415mm x 400mm x 44mm
Operating temperature	0°C to +50°C