

EVIDEN

BullSequana EX series

Envision trusted AI
from edge to cloud

AN ATOS BUSINESS

Edge computing for AI revolution

GLOBAL DEMAND FOR DATA PROCESSING
AT THE EDGE HAS BEEN GROWING FAST

The AI revolution has created an enormous demand for compute capacities. AI apps require large amounts of data to train and run AI models effectively. The primary need is for specialized hardware designed specifically for AI workloads. AI revolution is driving a need for distributed computing architectures that can handle the massive scale of AI applications. Including both centralized and decentralized architectures such as edge computing.

BY 2035, AI COULD HELP INCREASE

**global productivity
by 40%.**



Edge computing: The ideal solution to break frontiers for your IT infrastructure.

THE USE OF EDGE COMPUTING
HAS BECOME INCREASINGLY IMPORTANT
WITH THE RISE OF AI REVOLUTION.

AI applications require large amounts of data and compute resources. By processing data closer to the source with edge computing, AI applications can operate more efficiently with:



REDUCE THE LATENCY

Real time data processing for more responsive decision-making.



IMPROVE RELIABILITY

Reducing the risk of disruption for critical environments.



ENHANCE SECURITY

Keeping sensitive data closer to the source.

By processing data closer to where it is generated, edge computing can reduce the time it takes to transmit data. This can be critical for applications and all AI solutions.



REDUCE NETWORK CONGESTION

Improving overall network performance.

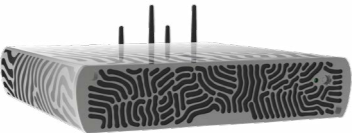


IMPROVE SCALABILITY

Adding computing resources locally.

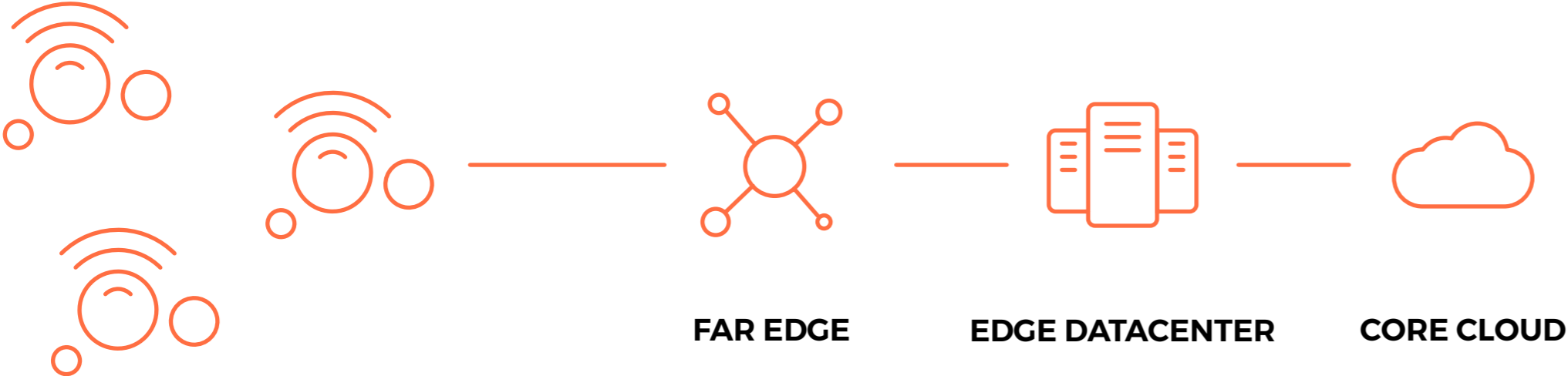
BullSequana EX series

BullSequana EX SERIES, DESIGNED TO MEET ALL YOUR REQUIREMENTS



BullSequana EXD

Branch offices, shop floors, cinemas, restaurants, train stations, airports, petrol stations, factories, platforms, cell tower.



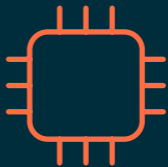
BullSequana EXR

Industrial Edge Datacenters where extended temperature range is required, Telco Edge Datacenters .



An edge server, ready for the most demanding environments

- Environmentally hardened 0°C - 45°C
- 5-95% humidity
- Wireless high perf connectivity 5G/Wifi



Upgrade your compute easily, while keeping the same chassis!

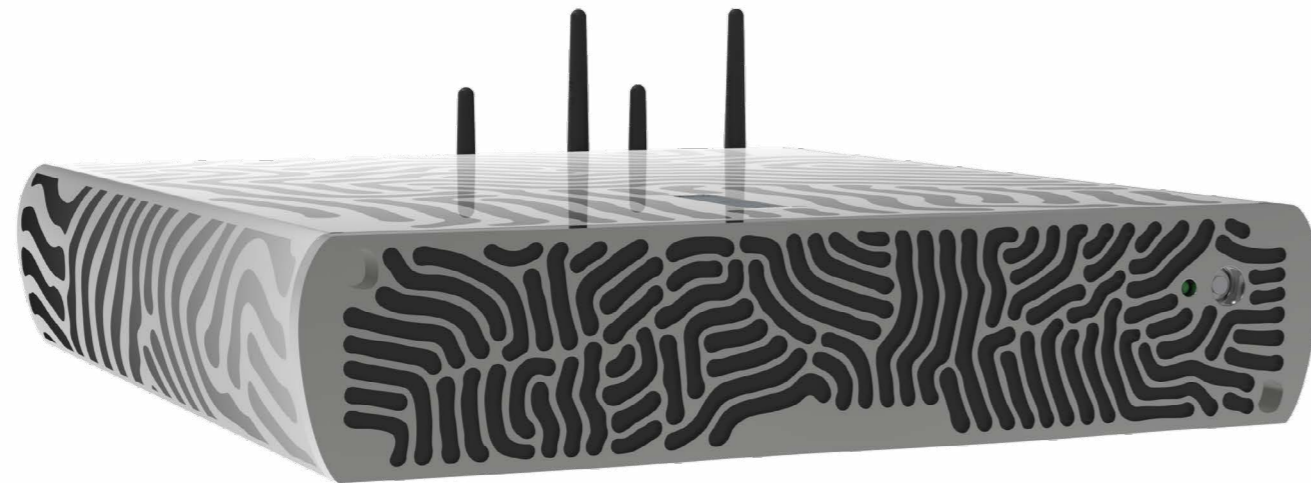
GPU : Flexible Nvidia Ampere or Lovelace up to 350W

CPU : 8 TO 12 with 4th Xeon

Flexible storage

BullSequana EXD

Designed for the Far Edge



- **POWERFUL FAR EDGE SERVER**
with leading AI inference and training capabilities
- **SUPPORTING THE LATEST NVIDIA RANGE**
for AI inference
- **FLEXIBLE INSTALLATION OPTIONS**



Deskside



Wallmount



Shorth depth Rack
(48cm)

BullSequana EXR

Designed for the Edge Datacenter



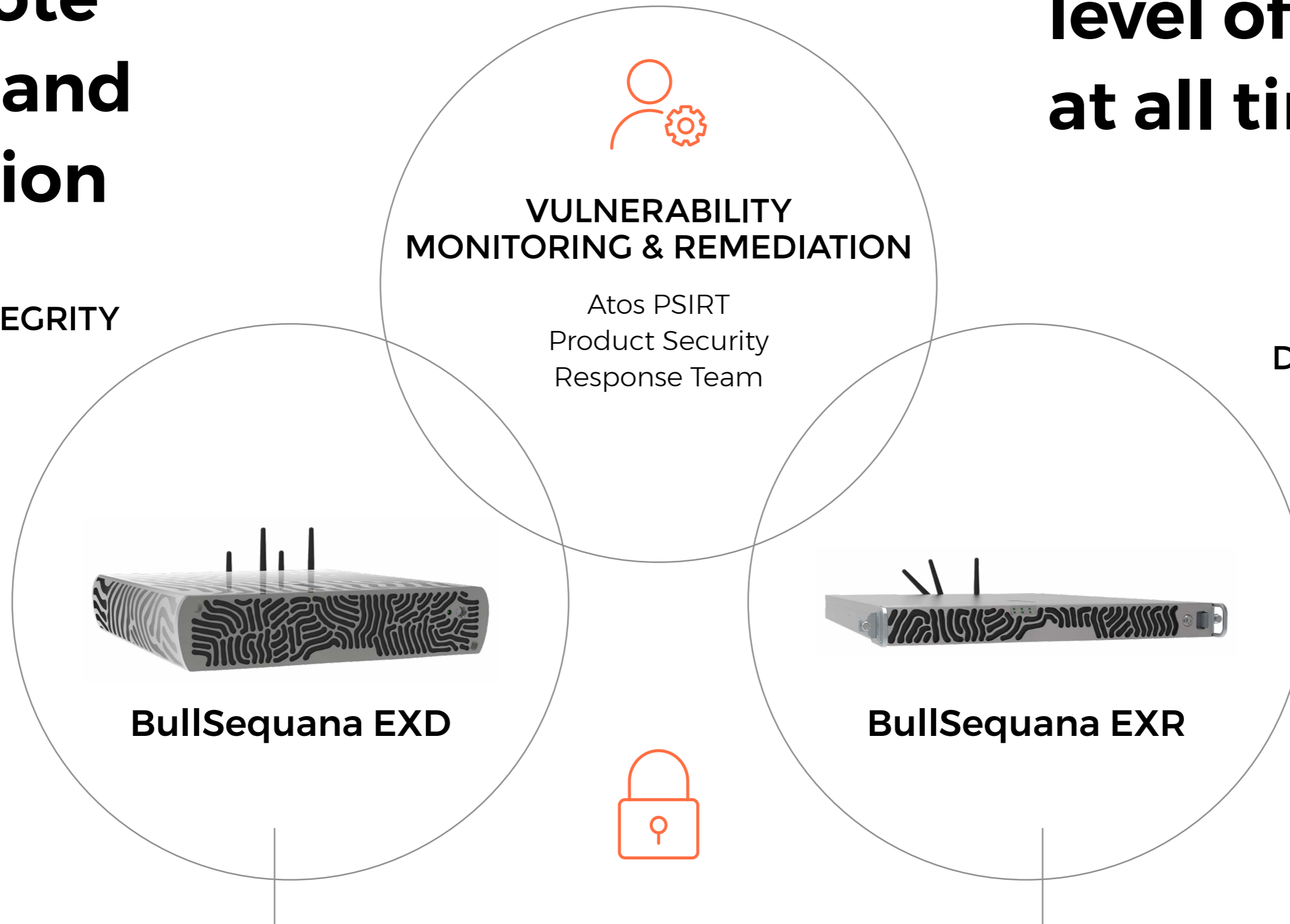
- **HIGH DENSITY EDGE DATACENTER SERVER**
with powerful AI inference and training capabilities
- **SUPPORTING THE LATEST NVIDIA GPU RANGE**
for AI inference / training
- **HIGHEST DENSITY FOR AI INFERENCE**
1U Rack (640mm depth)
- **FLEXIBLE DISK OPTIONS**
Up to 10 high speed NVMe disks
SATA disk options
Raid options

Secure remote monitoring and administration

Ensure the highest level of data security at all times.

SYSTEM SECURITY & INTEGRITY

- Atos Root of Trust
- NIST 800-193 compliant
- Secure boot
- Secure Firmware updates (full RedFish)
- Turn-Key Appliances (preload services)
- European factory/sovereignty

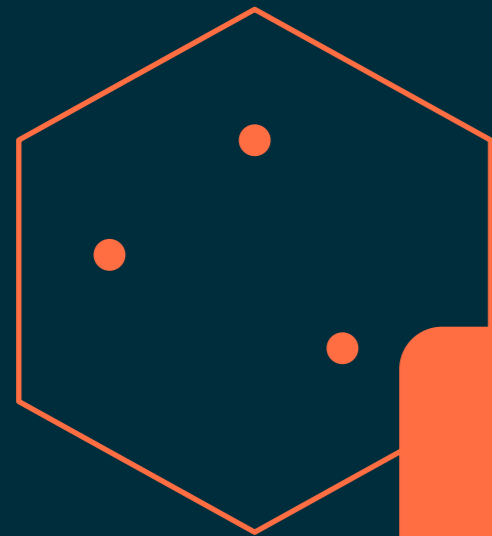


DATA SECURITY

- Optional self-encrypted disks (SED)
- TPM 2.0
- Trustway HSM signed keys

HW INTRUSION DETECTION

Keep your expectations high, but your carbon footprint low



Eviden factory, Angers, France
R&D, Les Clayes & Grenoble, France

EVIDEN DECARBONATION LEVEL AGREEMENT (DLA)

to help clients capture, measure, report on and reduce the overall carbon footprint of the BullSequana EX platform.



LARGE IMPROVEMENT IN COMPUTE DENSITY



USE OF MORE ENERGY EFFICIENT COMPONENTS



NO OVER-PROVISIONING OF RESOURCES FOR FUTURE DEMAND



INTELLIGENT POWER MANAGEMENT FEATURES AT THE SYSTEM LEVEL



FACTORY INDUSTRIALIZATION SERVICES



COMPLIANT WITH ENVIRONMENTAL REGULATIONS

Adapt easily your edge compute to your AI models with our computer vision platform offering

Computer Vision is a rapidly evolving field within Artificial Intelligence which has proved instrumental for a variety of applications ranging from manufacturing to healthcare to autonomous driving. The main challenge of this area is to not only to provide an accurate and robust AI model but also an end-to-end solution with continuous improvement.

Eviden Computer Vision Platform is a unique end-to-end computer vision platform providing pre-trained & customizable AI models powered by BullSequana server range and enriched by Atos computer vision experts through worldwide experts labs..

[LEARN MORE](#)



● KEY CAPABILITIES

- Behaviour detection
- Tag & track
- Facial recognition
- Environment sensing
- Object detection
- Forensic
- Traffic monitoring
- Non-facial recognition
- License plate recognition
- Watchlist alert
- Heatmap
- Touchless access control
- Quality inspection

● LEADING COMPUTER VISION MARKET

- Up to 5,000+streams
- 600+projects in 36 countries
- 19 nuclear, oil and gas, and energy sites
- 60+border, transport, and police authorities
- 400M+airport passenger journeys protected

● KEY FEATURES

Rule based scenario engine

Calibrate alarms to only be raised on specific behaviours or scenarios, minimising false and nuisance alarms.

Incident Response Graphical-User-Interface (GUI)

Maintain or search a past track on every individual, vehicle, or object to generate rich and accurate metadata unique to each object in the scene.

Kibana Visual Reports

Visualize collected data in real-time and retrospectively when investigating historic data

FOR SMART CITIES

Understanding Crowd
Detecting Traffic Violations
Automatically
Behavior detection
Maintaining safety

[LEARN MORE](#)

FOR TRAIN STATIONS

Overcrowded detection
Real time people counting
Lost child tracking
Passengers safety

[LEARN MORE](#)

WE ENABLE TO IDENTIFY

events and behaviours, to reduce error rates, to guarantee people and asset safety, to deliver highest quality, to offer frictionless and personalized customer experiences.

Business and organisations keep up the pace of events and demand, by analyzing videos in real time at the edge to drive the best decisions in all industries.

FOR MANUFACTURES

Quality control
Predictive maintenance
Products traceability
Density measurement

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FOR AIRPORTS

Passengers counting
Multi Cameras tracking
Intrusion detection
Face recognition

[LEARN MORE](#)

FOR RETAILS

Shelf inspector
Portfolio and revenue
management
Queue management
Location intelligence

[LEARN MORE](#)

EVIDEN RANGE

AI INFERENCE

Deliver compute capacity to process increasing number of streams / AI models / AI model complexity

0-20

20-100

Eviden offers an end-to-end Advanced Computing range designed for AI

AI TRAINING



BullSequana ES



BullSequana EX

COMPUTER VISION PLATFORM
OUTCOME DRIVEN AI PLATFORM

EVIDEN SERVER PORTFOLIO FOR AI

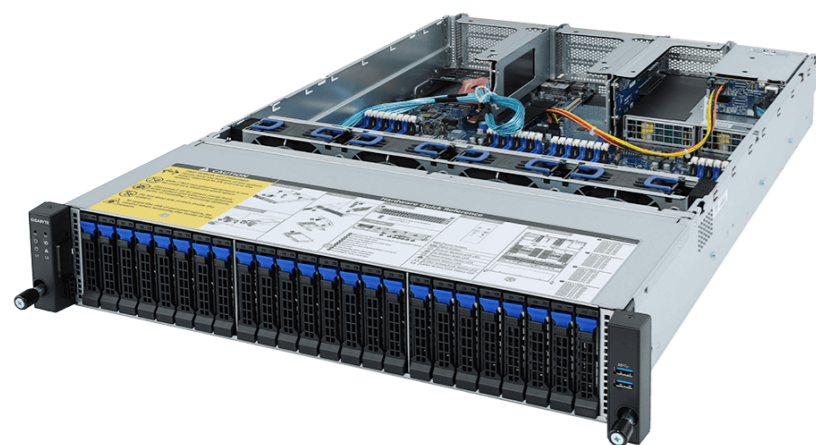
AI OFFERING



100-300

300-500+

Train on increasing AI model complexity



BullSequana SA



BullSequana XH

SIMULATION PLATFORM

ALL DESIGNED FOR



RETAIL



TRANSPORT



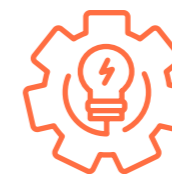
CITIES



STADIUMS



MANUFACTURING



ENERGY & UTILITIES



HEALTH

**Our services empower
Edge technologies
and provide secure
access locally on
machine-interface.**

- **PICK AND ADJUST THE SERVICES YOU NEED**
hardware and AI software
- **TURNKEY DEPLOYMENTS**
design your infrastructure ready to use.
- **BENEFIT FROM A TAILORED INDUSTRIALIZATION PROCESS:**
Fully fledged validation report
- **FLEET MANAGEMENT**
Optimize your server using IoT/AI technologies
- **EUROPEAN SOVEREIGNTY**
Unique manufacturer in Europe

Gain flexibility

Design as you need
Add on process



Go faster

Fastest supply
On site plug & play

Reduce risks

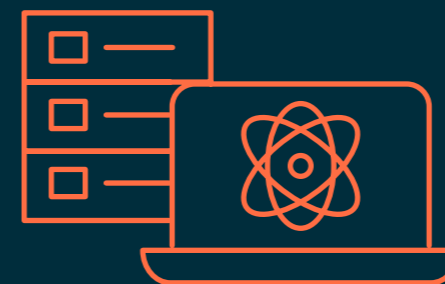
No unexpected costs
Highest quality and
repeatable process

MARKET RECOGNITION

#1

**Eviden,
recognized industrial leader**

- **Edge AI Global Leader in 2021 & 2022**
- **#1 “managed services & security” in Europe and #3 worldwide**
- **Recognized expert lab in computer vision & AI solutions**
- **#Global leader in Cybersecurity and data sovereignty**



Eviden is also a leader for hardware & software products

Leader in Edge Computing technology

Recognized manufacturer of enterprise high-end servers

Pioneer on the quantum computer



EVIDEN

AN ATOS BUSINESS