BullSequana EX series

Envision trusted AI from edge to cloud
MARKET CHALLENGES

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.

**Far Edge**
**Edge Datacenter**
**Core Cloud**

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 **Intel**.

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

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

VULNERABILITY MONITORING & REMEDIATION
- Atos PSIRT Product Security Response Team

Ensure the highest level of data security at all times.

BullSequana EXD

BullSequana EXR

HW INTRUSION DETECTION
SUBSTAINABILITY

Keep your expectations high, but your carbon footprint low

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

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

EVIDEN DECARBONATION LEVEL AGREEMENT (DLA)
to help clients capture, measure, report on and reduce the overall carbon footprint of the BullSequana EX platform.
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.

**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 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

**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

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 SMART CITIES
- Understanding Crowd
- Detecting Traffic Violations
- Automatically
- Behavior detection
- Maintaining safety

FOR TRAIN STATIONS
- Overcrowded detection
- Real time people counting
- Lost child tracking
- Passengers safety

FOR MANUFACTURES
- Quality control
- Predictive maintenance
- Products traceability
- Density measurement

FOR AIRPORTS
- Passengers counting
- Multi Cameras tracking
- Intrusion detection
- Face recognition

FOR RETAILS
- Shelf inspector
- Portfolio and revenue management
- Queue management
- Location intelligence

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