ERICSSON
HYPERSONE
DATACENTER
SYSTEM 8000

SOLUTION BRIEF
MANUFACTURING
Are you prepared for the digital economy?

To stay competitive in an already cost-optimized manufacturing industry, embracing digitalization is imperative.

Paradigms such as Industry 4.0 and the Internet of Things (IoT) indicate how digitalization will impact the industry and challenge existing processes, technology and business models.

Increased product complexity in combination with shorter lifecycles creates a need for agile product development, supported by efficient technology usage.

As data volumes grow, utilizing the most purposeful technology becomes imperative to maintain efficiency.

As a consequence, companies will need a flexible, cloud-based infrastructure to support the diverse workloads, which offer real-time insights.

**KEY CHALLENGES**

- High degree of product complexity with reduced lifecycle and time to market (TTM) improvement requirements
- Cost-conscious industry with high demands on process optimization
- Digital transformation is ongoing, driven by Industry 4.0 and the IoT
- High reliability and security requirements

Companies will need a flexible, cloud-based infrastructure to support diverse workloads.

Ericsson Hyperscale Datacenter System 8000 enables companies to transform into digital leaders.
**Complex processes with diverse workload requirements**
Software-defined infrastructure with hyperscale architecture enables dynamic reconfiguration of resources tailored to the precise needs of an application.
New dev/test environments can be set up at the push of a button in seconds – rather than weeks.
Applications service level agreements (SLAs) can be met by selecting from a resource pool.

**Security and compliance**
Virtual Performance Optimized Data Center (vPOD) abstracts data center resources at component-level, including networking and connectivity.
vPODs provide true virtual bare-metal and secure multi-tenancy.
Infrastructure can be separated into logical zones to ensure sensitive data is kept isolated and only accessed through authorized connections.

**Capacity-on-demand for applications with massive, real-time computation needs**
Component-level hardware disaggregation, common resource pools and automated provisioning enable dynamic consumption, based on workload needs.
Resources are shared across all workloads and applications and made available on-demand.
Optical backplane and high-performance interconnects provide instant access to resources anywhere in the data center.
Resources are returned to the pool when not needed.
Dynamic, elastic infrastructure scale with highest levels of utilization is provided.

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**KEY BENEFITS**

| Cheaper | Reduces capex by 75 percent and opex by 55 percent compared to traditional infrastructure by enabling an automated and optimized digital factory. |
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| Disaggregated | Component-level hardware disaggregation simplifies infrastructure management and allows dynamic resource composition. |
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| Born with optics | Optics enable exponential scalability and ensure assimilation with future technologies and data speeds. |
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| Programmable | Software-defined infrastructure enables complete visibility, lean infrastructure operations and improved business agility. |
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| Open | Open hardware platform to avoid vendor lock in – compatible with third party hardware and software. |
USE CASES

Ericsson Hyperscale Datacenter System 8000 is the one system that can run all workloads. It abstracts and pools resources, enables multi-tenancy and scales infrastructure bi-directionally on demand. Resources are returned to the pool when not required. Using Ericsson Hyperscale Datacenter System 8000, manufacturing companies can meet all their application needs in a secure, scalable, agile and cost effective manner.

Ericsson Hyperscale Datacenter System 8000 supports diverse applications including:

- Advanced simulations requiring high-performance computing
  - Materials, products, production processes, plant operations
- Common infrastructure across value chains
  - Industry 4.0 will require currently siloed departments, functions, and capabilities such as engineering, production and service to become more integrated
  - Applicable within and across sites

Ericsson Hyperscale Datacenter System 8000 can support any use case you might have. Talk to us about your specific needs

www.ericsson.com/hyperscale

About Ericsson

We are a world leader in the rapidly changing environment of communications technology – providing equipment, software and services to enable transformation through mobility. Some 40 percent of global mobile traffic runs through networks we have supplied. More than 1 billion subscribers around the world rely every day on networks that we manage. With more than 37,000 granted patents, we have one of the industry’s strongest intellectual property rights portfolios. Our leadership in technology and services has been a driving force behind the expansion and improvement of connectivity worldwide. We believe that through mobility, our society can be transformed for the better. New innovations and forms of expression are finding a greater audience, industries and hierarchies are being revolutionized, and we are seeing a fundamental change in the way we communicate, socialize and make decisions together. These exciting changes represent the realization of our vision: a Networked Society, where every person and every industry is empowered to reach their full potential.