

Stratus ztC™ Edge

Zero touch computing for machine builder advantage

Smart manufacturing requires smart equipment

Your industrial customers today are demanding smarter, more innovative solutions, to help increase profitability. They recognize that digital technologies can help increase business agility, improve operational efficiency, and maintain consistent quality—all at lower costs.

But making your equipment smarter requires more than just adding computer hardware and software. Your embedded computing systems must also meet stringent performance requirements and operate reliably, typically under adverse conditions, to provide greater visibility and continuous access to relevant information that can be used for competitive advantage.

The challenge is how to best do this. You're not staffed with a lot of computer experts. Nor should you be. What you'd like, is to easily incorporate reliable computing into your machine or equipment. Ideally, this computing platform would also be easy to integrate into your customer's computing environment, easy to manage, and easy to maintain—without the assistance of IT resources.

Consider ztC Edge

With Stratus ztC Edge, you can quickly incorporate highly reliable, and easily maintainable computing systems, into your machinery and equipment. Easily differentiate your solutions, from other machine and equipment builders. Rely on Stratus's expertise in reliable, manageable computing systems to make your equipment and people more productive, and focus your time and effort on extending your equipment's core capabilities.

Designed specifically for OT environments, ztC Edge is a versatile, fully integrated, self-protecting, industrial computing platform that helps machine builders increase efficiency, reduce IT burden, and lower downtime risk. A pair of rugged nodes, with integrated redundancy, built-in virtualization, automated recovery, and cloud-based system health management services, ztC Edge delivers virtualized industrial

Key benefits

- **Increased efficiency:** With pre-installed virtualization, and automated application and data protection, ztC Edge simplifies and shortens the time it takes to update your machine's computing environment. Redundant, hot-swappable nodes can easily be replaced by your maintenance staff, saving you time and effort.
- **Reduced IT burden:** ztC Edge's self-monitoring and self-protecting capabilities make it ideal for unmanned stations, or remote locations with limited resources. Because it takes care of itself, OT and IT professionals have more time to focus on other priorities and value-added activities.
- **Lower downtime risk:** ztC Edge's self-monitoring and self-protecting features help reduce unplanned downtime. Its virtualization host software can be updated on a running system (without requiring a system reboot), eliminating any downtime associated with system upgrades.

IoT and control applications quickly and reliably. ztC Edge is easy to integrate, easy to manage, and easy to service. Accelerate time to market, while lowering costs at every stage of your product's lifecycle—from design, development, delivery, operation, and support—by using Stratus ztC Edge for your machine's computing needs.



Key features

Stratus ztC Edge systems include many built-in and automated capabilities, designed to save you time and effort, and eliminate the need for specialized computer skills.

- **Built in virtualization:** ztC Edge ships with a built-in virtualization platform called Stratus Redundant Linux. Based on the open source KVM project, it can run up to 4 separate Windows® or Linux® virtual machines, each with different industrial control or IoT applications. A management tool, ztC Console, makes it easy for you to set up, configure and manage virtual machines.
- **Automated protection:** ztC Edge is comprised of redundant nodes that act as a single system. With workload migration, data replication, and redundant networking, it instantly provides protection for applications and data. The system can proactively move virtual machines from one node to the other, to ensure application continuity. If it detects a networking or disk failure on one node, it automatically re-routes traffic or uses data on the other node, without any operator intervention.
- **Automated recovery:** Stratus ztC Edge nodes can be separated, as long as there is a direct network connection between them. Applications that are running in one location can resume in another, with minimal interruption of service, and without operator intervention, providing local area disaster recovery.
- **Rugged, hot-swappable nodes:** Designed for harsh, industrial environmental conditions, ztC Edge performs equally well on the plant floor, or in a machine cabinet. Its fan-less, solid state design is durable, and operational in temperatures ranging from –40 to +60 degrees Celsius, and non-condensing humidity between 10 to 95%. The compact system can be wall or DIN rail mounted, and can withstand vibration to 3 Grms.
- **System health monitoring and management:** Available with ztC Edge are optional system health monitoring and management services, that can be coordinated with your support team, to create a seamless experience for your customers. ztC Edge can be configured to continually monitor and send system generated logs to Stratus over a secure network. Stratus engineers in turn can analyze these logs, triage alerts, predict failures before they occur, and address potential issues before they become more serious problems.

Service options

Stratus offers two ways to simplify the monitoring and management of the ztC Edge system in your machinery or equipment—System Support and System Health:

Service Level	Features
System Support	<ul style="list-style-type: none"> Problem root cause determination 3-day parts exchange 24/7/365 support via web or phone (for critical issues) 30 minute critical response SLA Access to service history, patches, and knowledgebase through self-service portal
System Health	<ul style="list-style-type: none"> Everything in System Support Predictive failure analysis Alert triage System log review 24/7/365 system health monitoring

Technical specifications

Processor	Intel Core i7, 4 hyperthreaded cores
System Memory	32 GB
Storage	512 GB SSD
System I/O	HDMI Ethernet: 4 x 1 GbE (2 available for user applications) USB: 8 x USB 2.0
OS	Stratus Redundant Linux (with virtualization)
Temperature	–40 to +60 °C (0 to +50 °C if using provided AC adapter)
Humidity	10% to 95%, non-condensing
Vibration	3 Grms (5-500 Hz: X, Y, and Z directions)
Dimensions	280 mm (11.02 in) x 190 mm (7.48 in) x 76 mm (2.99 in)
Weight	4.6 kg (10.2 lbs.)
Certifications	CCC, CE, FCC, ICES, RoHS, UL, VCCI
Installation	DIN rail, wall, or table top
Power Input	9 to 36 VDC
Power Consumption	35W

For more information

More information about the ztC Edge, and other reliable industrial computing solutions from Stratus, please contact your local sales representative, or visit www.stratus.com/ztc-edge

