Stratus ztC™ Edge

Zero touch computing for your critical industrial control systems

Each year the expectations increase—greater productivity, higher quality, faster changes. While some manufacturers are well into leveraging technology to improve profitability, many are still in the early stages. Nevertheless, most all would like to update their aging, standalone computers, and virtualize their industrial control applications to increase efficiency and reclaim space, but lack the time, resources, or skills to do this.

What would be ideal, is a turnkey computing platform—one with virtualization and reliability already built-in, to deploy highly available, yet highly efficient business-critical SCADA/HMI systems and Historian databases quickly and easily. One that eliminated OT's reliance on IT and allowed them to focus on the business of running their plant, not their computer systems.

ztC Edge is the answer

Stratus ztC Edge is that system. Deployed in under 30 minutes, and monitored 24/7/365 by Stratus, manufacturers can quickly and easily increase their efficiency, and lower their downtime risk, by using ztC Edge. And by relying on Stratus's expertise in reliable computing systems, they can focus their time on more value-added plant optimization and control.

ztC Edge is a versatile, fully integrated, self-protecting, industrial computing platform that helps resource constrained manufacturers increase operational efficiency, reduce IT burden, and lower downtime risk. A pair of rugged nodes, with built-in virtualization, integrated redundancy, automated recovery, and cloud-based system health management services, ztC Edge delivers virtualized industrial IoT and control applications quickly and reliably.

Key benefits

- **Increased operational efficiency:** With pre-installed virtualization, automated application and data protection, and intuitive, user-friendly configuration and management tools, ztC Edge simplifies and shortens the time it takes to get critical applications up and running, 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, both you and IT 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.

- **More deployment options:** ztC Edge performs equally well in the control room, machine cabinet, or shop floor, giving customers more choice. Its fan-less, solid state design is durable, industrial rated, and can be wall or DIN rail mounted, with front-accessible color-coded ports for quick and easy installation.

Stratus

For an **Always-On** World

Key features

Stratus ztC Edge systems include many built-in and automated capabilities, designed to save customers time and effort, and eliminate the need for specialized IT 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 plant staff to set up, configure and manage their 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.

- **Local site recovery**: Stratus ztC Edge nodes can physically be deployed in different locations, as long as there is a direct network connection between them. Applications that are running in one room can resume in another room, with minimal interruption of service, and without operator intervention, providing local site disaster recovery.

- **Rugged, hot-swappable nodes**: Designed for harsh, industrial environmental conditions, ztC Edge performs equally well in the control room, cabinet, or shop floor. 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**: Included with ztC Edge is a REST API, for easier integration of system information into common system management platforms. Also available are optional system health monitoring and management services. 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, and address potential issues before they become more serious problems.

Service options

Stratus offers two service options to simplify the monitoring and management of your ztC Edge system—System Support and System Health:

Service Level	Features
System Support	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	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 (–40 to 140 °F) (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**