BullSequana Edge

Edge Data Container

An Atos & Rittal partnership offer

The greatest advantages of edge data analysis are reduced latency, analyzing very complex data volumes in real time. These two major points require systems to be installed as close as possible to the IoT. The IoT imposes physical constraints since its main characteristic is that it can be placed anywhere to produce data. The stakes are high: create a mobile and customizable mini datacenter according to the constraints of the environment (temperature, exterior, humidity, fire risk, theft) and storage needs.

Designed to operate outside of the datacenter

To meet these challenges, Atos has developed Edge Data Container, an all-in-one solution from BullSequana Edge.

It serves as a decentralized IT system, running at the edge. It is a secure, highly standardized, industrial solution. It can run autonomously in non-data center environments with no need for a white room or local IT teams to operate.

It can be customized for various purposes and can embed Atos Edge Computer Vision, Atos Edge Data Analysis applications as well as other implemented production applications.

Atos, in partnership with Rittal provides, the appropriate IT infrastructure to the Edge Data Container solution.

Edge Data Container key benefits

1. Security

Atos edge server in various housing solutions to provide protection against physical threats, IP rating, access control, climate control and condition monitoring. Other options as special Micro DC for fire protection or attempted violation (All data is secured for 90 mts) or outdoor solutions are available.

2. Decentralized data processing

Increase storage capacity outisde datacenter

3. Flexbility

Bring the Edge computing closer to your IoT without being restricted by the installation environment. Add additional equipment as IT, Storage, networking in one box.

Main features

- physical protection
- monitoring
- access control
- power distribution
- early fire detection
- cooling
- fire extinguishing

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Edge Data Container solution options

Consolidation of edge servers or mix of servers, storage & other equipment

	24U *- available to use 23H*	**Micro DC** *- available to use 40 H*	**Intelligent Edge DC** *- available to use 40 H*	**Plug & Play Datacenter Container** *-20ft, 6 server racks*
IP	Industry protected with IP 55		IP 20, optional IP 55	
Max IT load capacity	1,5 kW	6kW	10kW	10kW per rack, 6 server racks (60kW max. load)
Door	Glazed door front, steel door rear, plinth			
Power distribution & protection	UPS: Socumec: 3300 VA, PDUs (Sockets): Rittal PDU metered, 2 pcs.	PDUs (Sockets): Rittal PDU metered, 2 pcs	UPS: Socomec: Capacity depends on IT load PDUs (sockets): Rital PDU metered, 2 pcs	Main power distribution: Siemens MCBs (A&B line) UPS: to be defined PDR: Siemens MCBs, BD2, PAC PDUs (Sockets): Rittal PDU basic
Cooling	1,7 kW cooling capacity	3 kW cooling capacity Option: 3 kW redundant, 6 kW, 6 kW redundant	12 kW cooling capacity Option: 12 kW redundant	10kW: Rittal ZUCS CW (per unit, 7 ZUCS)
Security & Monitoring	• Monitoring of cooling system and temperature: Rittal IoT Interface • Fire alarm and extinguishing system: Rittal DET-AC III	• Device & Sensor Level monitoring, access control (rack): rittal CMC III • Fire alarm and extinguishing system RIttal DET A III	• Device & Sensor Level monitoring, access control (rack): Rittal CMC III • Fire alarm and extinguishing system RIttal DET-AC III	• Early Fire Detection & Device & Sensor Level Monitoring, Access Control (Rack): Rittal CMC • Monitoring Dashboard: Siemens Desigo CC (option)
Options	Automatic door opening as option for emergency cooling	"Safe version" as Micro Data Center with protection against fire (90 mts). Water and dust, unauthorized access and smoke. Test reports available.	Automatic door opening as option for emergency cooling	

For more information: atos.net/BullSequanaEdge

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