

# Edge Data Container

An Atos & Rittal partnership offer

The greatest advantages of edge data analysis are reduced latency and the ability of analyzing very complex data volumes in real time. These two major points require systems to be installed where the data is generated. 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, 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.

## Main features

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



## Edge Data Container key benefits

1. Security  
Master insurance costs in case of fire or attempted violation, all data are secured for 90 minutes before firemen and security forces intervene. 
2. Decentralized data processing  
Increase storage capacity outside datacenter
3. Flexibility  
Bring edge computing closer to your IoT without being restricted by the installation environment.

# Edge Data Container solution options

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



**24U**  
- available to use 23H



**42 U**  
- available to use 40 H



**Micro DC**  
- available to use 40 H



**Plug & Play Datacenter Container**  
-20ft, 6 server racks

<b>IP</b>	Industry protected with IP 55	IP 20, optional IP 55		
<b>Max IT load capacity</b>	1,5 kW	6 kW	6kW	10kW per rack, 6 server racks (60kW max. load)
<b>Door</b>	Glazed door front, steel door rear, plinth			
<b>Power distribution &amp; protection</b>	UPS: Socumec: 3300 VA, PDUs (Sockets): Rittal PDU metered, 2 pcs.	UPS: Socumec: Capacity depends on IT load PDUs (Sockets): Rittal PDU metered, 2 pcs.	PDUs (Sockets): Rittal 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
<b>Cooling</b>	1,7 kW cooling capacity	3kW cooling capacity Option: 3 kW redundant, 6 kW, 6 kW redundant	3 kW cooling capacity Option: 3 kW redundant, 6 kW, 6 kW redundant	10kW: Rittal ZUCS CW (per unit, 7 ZUCS)
<b>Security &amp; Monitoring</b>	<ul style="list-style-type: none"> <li>Monitoring of cooling system and temperature: Rittal IoT Interface</li> <li>Fire alarm and extinguishing system: Rittal DET-AC III</li> </ul>	<ul style="list-style-type: none"> <li>Device &amp; Sensor Level Monitoring, Access Control (Rack): Rittal CMC III</li> <li>Fire alarm and extinguishing system: Rittal DET-AC III</li> </ul>	<ul style="list-style-type: none"> <li>Device &amp; Sensor Level monitoring, access control (rack): rittal CMC III</li> <li>Fire alarm and extinguishing system Rittal DET A III</li> </ul>	<ul style="list-style-type: none"> <li>Early Fire Detection &amp; Device &amp; Sensor Level Monitoring, Access Control (Rack): Rittal CMC</li> <li>Monitoring Dashboard: Siemens Desigo CC (option)</li> </ul>
<b>Options</b>	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.	

For more information: [atos.net/BullSequanaEdge](https://atos.net/BullSequanaEdge)

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