# EdgeDC

Fast to Get.
Easy to Deploy.
TCO-driven Product.



# EdgeDC

All the features of a brick-and-mortar data center – in a mobile, scalable, and energy-saving environment.

Ready to operate in 6 – 12 weeks.

Edge data center undergo thorough IST – integrated system testing before delivery to the site.



4 - 15 ICT racks 42U

Tier IV - II resilience

3m wide for operators' comfort

17 ready-made configurations

Online configuration tool

Customization

Special Military Specs



# 20 years History of building DCs



2001

Gen 1

2019

Gen 2

2023

Gen 3



# Why EdgeDC?

Support immediate need for ICT capacity



11 months

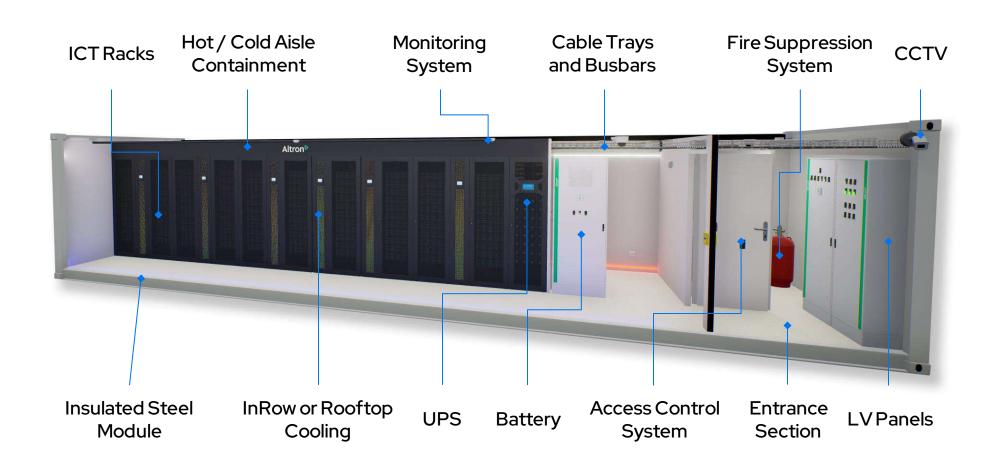
3 months

### **Product Lines**

	EdgeDCSeries N	EdgeDCSeries R	
Cooling Units location	In-Row	Rooftop	
Racks	3.5 – 14	8 – 15	
Dimensions	20ft, 30ft, 40ft & 45ft	30ft, 40ft & 45ft	
ICT power range	40 kW – 100 kW	55 kW - 110 kW	
Max ICT power per rack	10 kW	10 kW	
PUE	1.4	1.25	
TIER Classification Standards	TIERI/III	TIER II – IV	
Redundancy (power/cooling)	2N/N+1	2N / N+1	
UPS Battery Runtime	7 minutes	5–9 minutes	



### EdgeDC



#### **SMART**

### **Smart Services**

One of the ways to decrease operating costs and increase efficiency is through converged operations. The principle of convergence is the transition from the management of individual systems and subsystems to the management of one integrated unit, which allows for assisted and/or autonomous operation.

Stemming from our 30-year industry experience we have Altrix monitoring and management system with following modules:

- Real-time monitoring
- Control & automation
- Analytic services: predictive maintenance
- Operations optimization





### **EdgeDC**

#### Standard scope of the module / Technology Expertise

Electrical System	Mechanical System	Civil Works	Security & ELW System	Fire Detection & Suppression System	Passive Network Cabling	Monitoring & DOM
Generator Sets	Computer Room Air Conditioners	Construction Elements	Electronic Security Systems	Electronic Fire Alarm	Metallic Cables	Environment Monitoring
Fuel Systems	Chiller Plants	Raised Floors	Access Control Systems	Air Sampling Smoke Detectors	Optical Fibres	Communication Paths, Data Acquisition
UPS	Air Handling Units w. Heat Recovery	Suspended Ceilings	Camera Units, CCTV	Fixed Fire Extinguishing Systems	Patch Panels	Monitoring Servers
DC Systems & Batteries	Humidifiers	IT & non-IT Racks	Security Doors	Fire Resistant Sealing	KMV Switches	Software
Control System	Circulation Pumps	EMC Protection		Fire Resistant Flap Valves and Claps	Measurement Instruments for IT Networks	Remote Monitoring
HV Switchboards	Thermal Storage Systems	Other Site Preparation				Local Surveillence Centre
Transformers	Piping Systems					DCIM
LW Switchboards						
Wiring and Electrical Cabling						

### Multiple cooling options

- inRow
- Rooftop
- Direct and indirect free cooling units

#### **Situation**

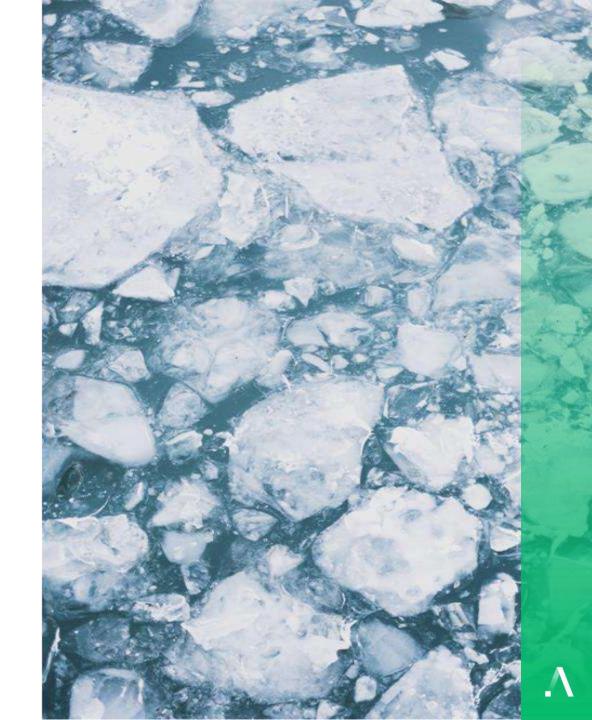
- Cooling = the most important factor in efficiency = PUE factor
- Member of ASHRAE, continuously improving the expertise in cooling
- Locally tested in extra high temperatures (with high humidity and sand particles presence) and extra low temperatures

#### Solution

**Free cooling:** high efficiency, low operating costs

#### Why EdgeDC

Offers 2 main choices of cooling unit placement + free cooling option



# Customisable from standard to premium specs

Special requirements of the clients x design, consultation by us

**Use case: Military** 

Premium options:

- Extra thick metal case
- Special color to prevent interception of the data
- Extra secure entrance + perimeter security

Use case: ISP

Premium options:

Locally tested (humidity, temperature, sand) x Russia (cold)



# Integrated, scalable, flexible, on-demand

Integrated

All in one module, delivered anywhere

Scalable

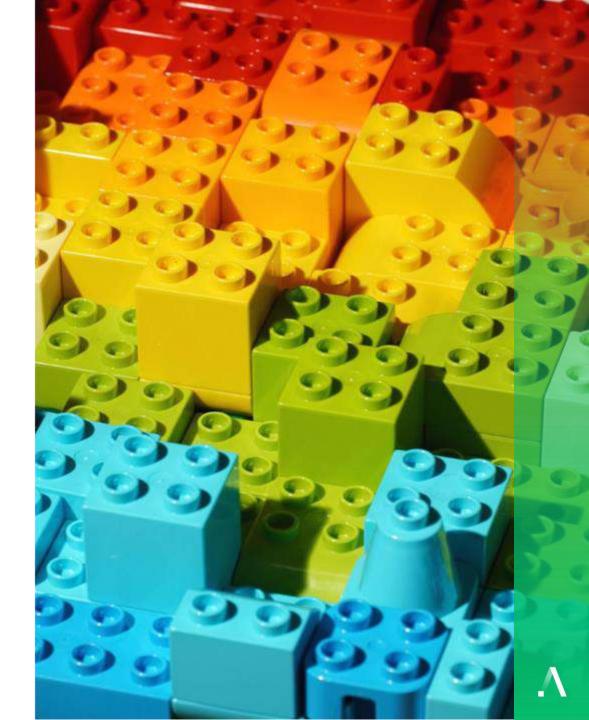
Just add more racks

Flexible

Easily transportable,

On demand

Configure your EdgeDC in configurator



# Ruggedized and factory tested

#### Challenge

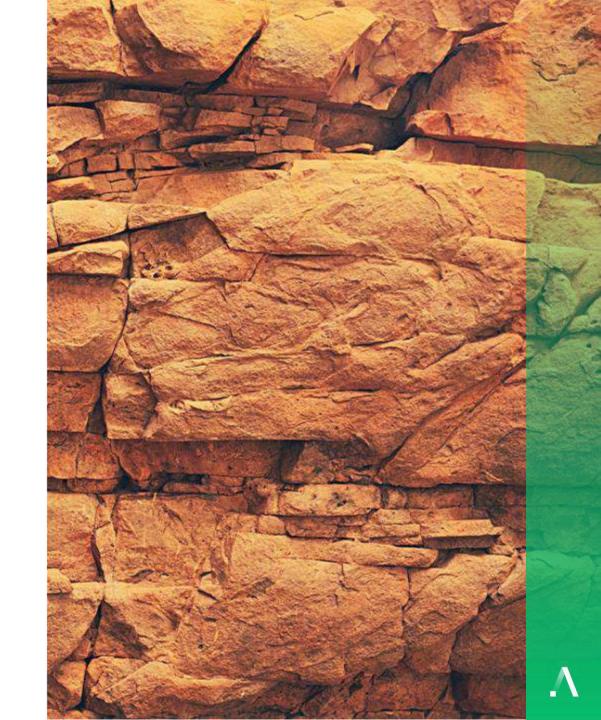
- Military & civil defense
- Climate extra hot, extra cold
- Oil, gas, and mining industries
- Marine environment and offshore platforms

#### **Solution**

Hard steel construction can be additionally equipped with EMC shielding, high-end access control systems, CCTVs, and intruder detection systems, to accomplish the highest physical and cyber security.

#### Why EdgeDC

Security by design, highly mobile capacity



### Benefits



#### **Fast**

Accelerated returns through prefabrication.



#### Ease of mind

Standardized product delivering instant IT capacities.



#### Value for money

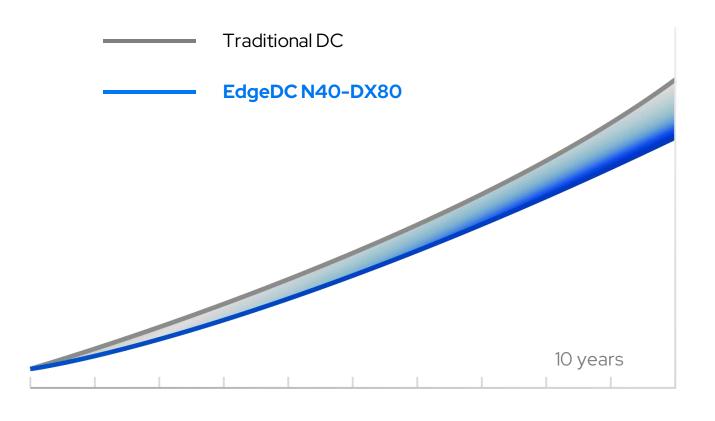
Complex integration activities completed at factory level.



#### Global product, localized

Physical and logical separation increase investment protection

### **Total Cost of Ownership**



#### **Up to 19.5% lower TCO**

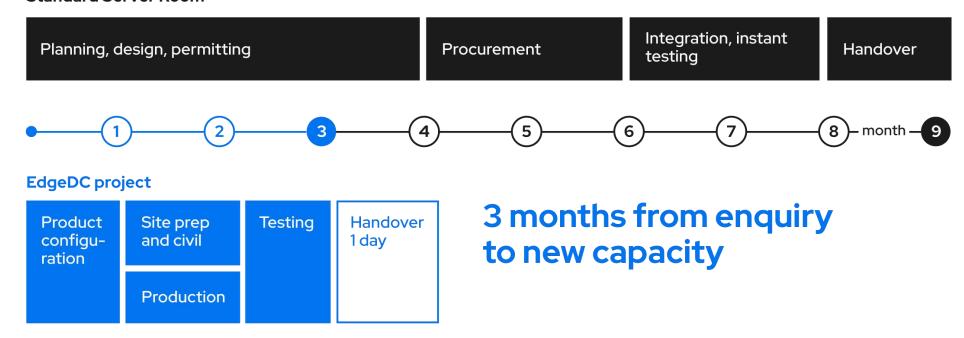
We have calculated Total Cost of Ownership (TCO) for the 10-rack data centre EdgeND40-DX80 and traditional DC built as a server room.

#### Up to 22.2% lower OPEX

- high energy efficienty (low PUE)
- low maintentance costs

### Fast to deploy

#### Standard Server Room



# Global product, localized

Thanks to our certified partner network.



















# Trusted by



















MINISTRY OF THE INTERIOR OF THE CZECH REPUBLIC

### Accolades

ISO **14001:2018** 

ISO **9001:2018** 

ISO **20000-1:2018** 

ISO **18001:2008**  ISO **27001:2018** 

National Security Authority of the Czech Republic

Certificate classification level: Secret

Armed Forces of the Czech Republic

**Certificate of compliance with AQAP 2110** 

National Civil Aviation Authority of the Czech Republic

**Approval Certificate for Contractor** 











# Thank you!

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