2crsi

Innovating in computing

HIGH PERFORMANCE SOLUTIONS MANUFACTURER

**By Rajashekhar,
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OUR DNA

TECHNICAL

CONCEPTION
RESEARCH

CORE BUSINESS

INFORMATION
TECHNOLOGIES

CUSTOMER

CONSULTING
SERVICE

2crsi

2CRSI: High Performance Solutions Manufacturer

2CRSI is a France based Public Limited Company. We provide products suitable for industries which require robust solutions and also for datacenters looking for high-performance systems combined with energy efficiency.

We provide storage systems, high-performance computing (HPC) solutions, and customized IT appliances. Our servers are designed and manufactured in France and assembled in both France . Helping our customers and users to be most efficient, effective, and successful with their IT is our motivation.

2CRSI customers include BLADE (ShadowPC), CGG, OVH, Free, Dassault Group, Dubai Tourism, Sharjah Museum, Abu Dhabi Midfield Terminal and many independent software vendors, data centers, distributors, and other businesses with a need for high-quality, efficient, reliable storage and computing.

OUR USERS IN MIDDLE EAST
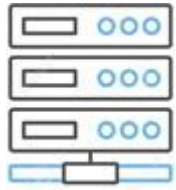
OUR BUSINESS INVESTMENTS

And GEOGRAPHICAL PRESENCE
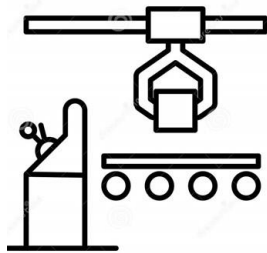
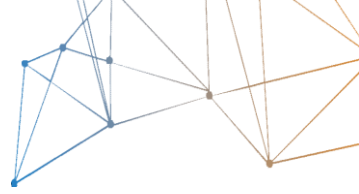Servers Storage Industrial Data Center Cloud Gaming

Manufacturing R&D Custom Energy Efficiency
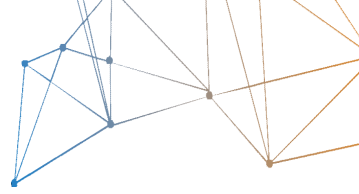
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IT infrastructures Manufacturer

- **Advanced Computing (HPC,AI,DL,ML)**
- **Datacenter**
- **Immerse Cooling**
- **Servers**
- **Custom appliances**
- **Storage****

Portable and Rugged Industrial Products

- **Slim PC**
- **Fanless PC**
- **NUC**
- **Embedded Systems**
- **Micro Cluster**
- **Custom Appliances**

Product Range

Portable Datacenter

MCC
Micro Cluster

Rugged Servers

RFS
Rugged Fanless Server

Rugged Computers

MMD
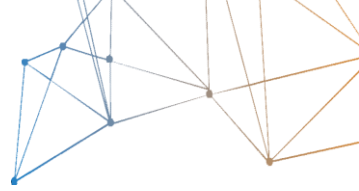Mini Multi Display

RN
Rugged NUC

MRC
Mini Rugged Computer

USN
Ultra Slim NUC

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What is IP rating

= **Ingress Protection** (IP) **rating (Example-IP-66**

➤ System indicating the **protection level** of products against both **solids and liquids** in electrical enclosures.

➤ **two-digit number** published by the International Electrotechnical Commission (IEC) / equivalent European

standard EN 60529.

IP First number - Protection against solid objects	
0	No special protection
1	Protected against solid objects over 50mm e.g. hands, large tools
2	Protected against solid objects over 12.5mm e.g. hands, large tools
3	Protected against solid objects over 2.5mm e.g. wire, small tools
4	Protected against solid objects over 1.0mm e.g. wires
5	Limited protection against dust ingress (no harmful deposit)
6	Totally protected against dust ingress

| IP Second number - Protection against liquids	
0	No special protection
1	Protected against vertically falling drops of water or condensation
2	Protected against falling drops of water, if the case is disposed up to 15 from vertical
3	Protected against sprays of water from any direction, even if the case is disposed up to 60 from vertical
4	Protected against splash water from any direction
5	Protected against low pressure water jets from any direction. Limited ingress permitted
6	Protected against high pressure water jets from any direction. Limited ingress permitted

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Mini Multi Display PC

Rugged PC for Professional & Industriel Purpose

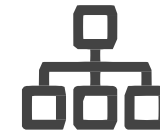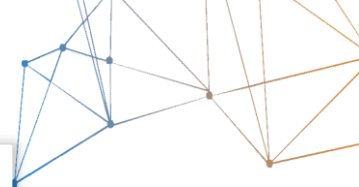| Four 4K Display Outputs	IP 50 Operational Temperature 50°C	Maintenance free
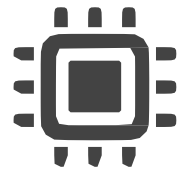
AMD Ryzen™	**Full Flash**	**RJ45 & Wireless**

CCTV Monitoring

Digital Signage

Multi Display

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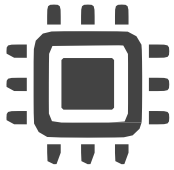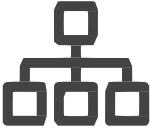
Rugged Mini PC

Rugged computers Professional & Industrial Purpose			
IP66/IP50 rating with extended temperature range	Support 4K display	Gigabit LAN/Wifi/4G	Maintenance free

Outdoor Purpose

For AI ,IOT

Digital Signage

Transportation

Construction

Hospitality

Intel Celeron Intel® Core™ i3/i5/i7	Full Flash	RJ45 & Wireless

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Ultra Slim NUC
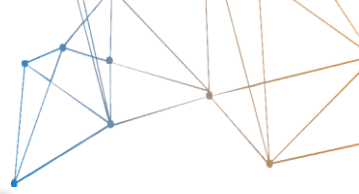
Our Smallest Ruggedized Fanless PC with self cooling system

Ultra compact	Remote Access with 2HDMI ports	Fanless	Only 26MM and 1.1 Kg
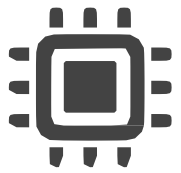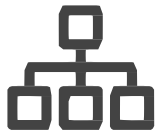
Digital Signage

IOT

Transportation

Intel® Core™ i3/i5 vPro™	Full Flash	Gigabit LAN & Wireless

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Rugged Fanless Server

Professional & Industrial Embedded Server
The system is designed to withstand industrial environmental hazards.

Redundant Power Supply	2U Half-rack form factor	Dual Gigabit or 10Gbps Ethernet Connectivity	Fanless Maintenance Free

Outdoor Server

Hospitality
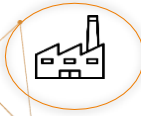
Industrial Solution

ANPR (Automatic Number Plate Recognition)

For AI ,IOT

Intel® Xeon® D	Full Flash	RJ45

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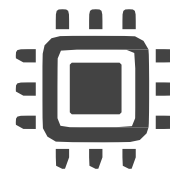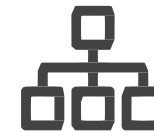
Verticals for Rugged Systems

Industrial

Transportation
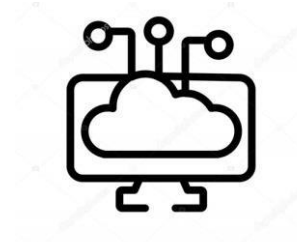
Edge computing

Police

INTERNET OF THING

Banks

Entertainment

Defense

Micro Cluster or Mini Datacenter

Micro Cluster is a fully integrated, low power, modular and compact computer cluster

4 to10 blades	**Low power**	**Flexible**
Portable	**Multi-nodes**	**Rugged**
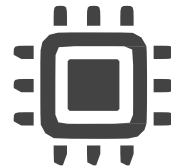
Intel®Core™ i5 Intel®Xeon® D	**Full Flash**	**RJ45 & Wireless**
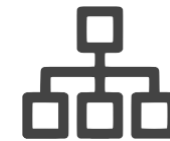
- Micro Services
- Startup Companies
- Disaster Solutions
- Digital Signage
- Application Demo
- VDI (Portable)

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2CRSI HCI Solution

Virtualization

Servers

Storage network

Storage
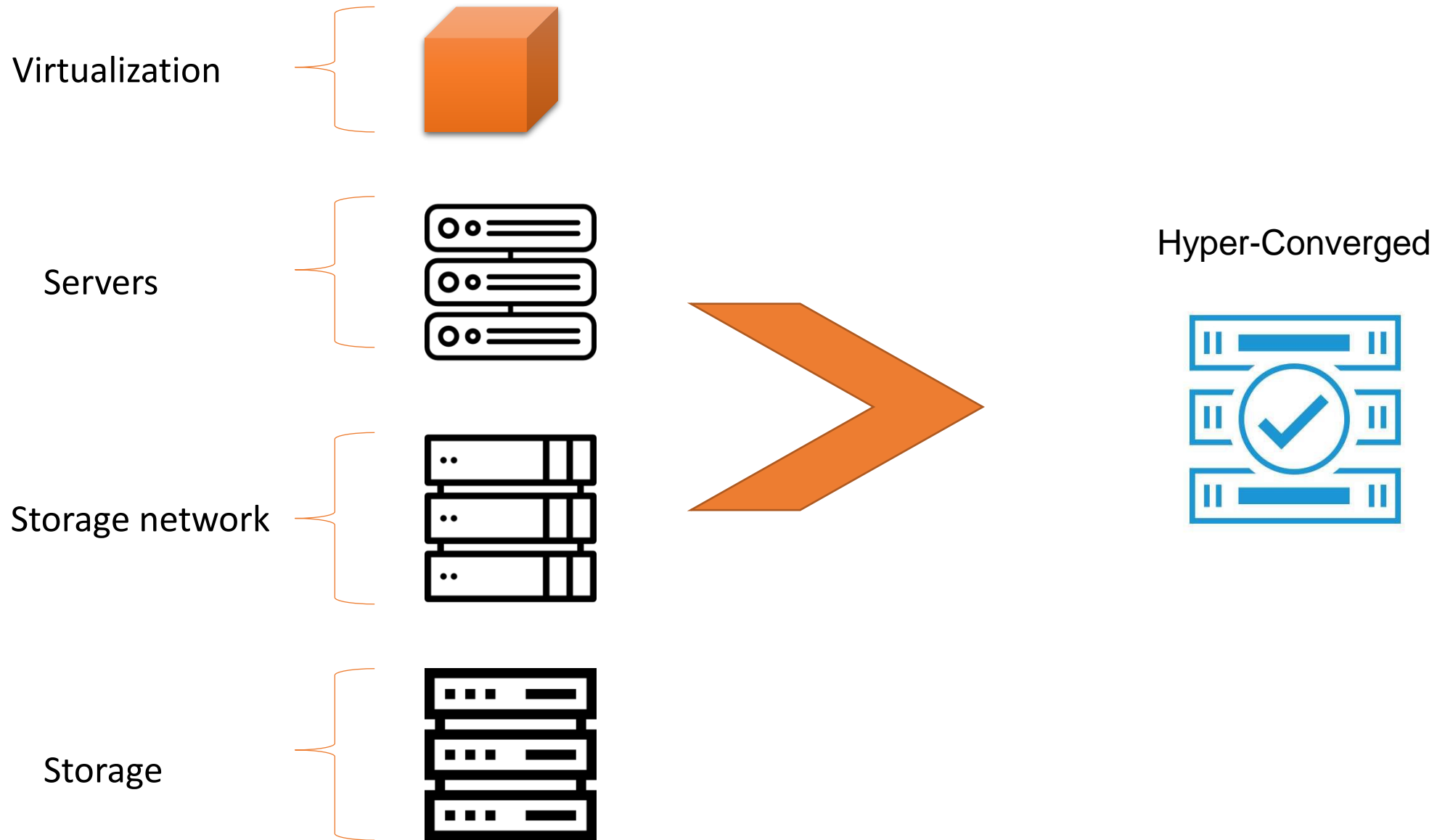
Hyper-Converged

HCI READY MICRO CLUSTER
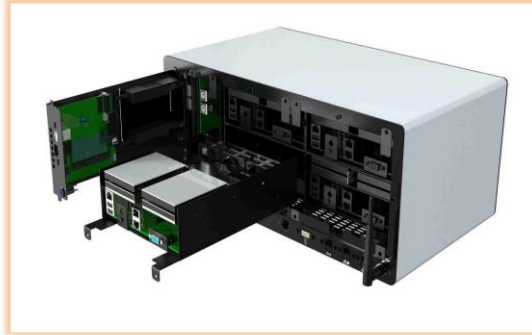
Our Hyper-converged cloud appliance includes everything you need to connect to your network.
Designed using class leading technologies,
10GbE interconnects and all SSD storage delivering superior performance with our optimized stack.

STORAGE
Unified Storage Auto Tiering Containerisation Erasure Coding Data Placement Composable Quotas

SECURITY
Resilient   Volumes   Disaster Recovery   Validated Registry   No SPOF
Rolling Upgrades Zero Downtime Multi-Layer Authentication

MGMT. PORTAL
Self Service
Real Time Analytics Intuitive

VIRTUALISATION
Custom KVM Hypervisor Pre-emptive Log Analysis Rapid Deployment Enterprise Grade

APPLIANCE (PER NODE)

MODEL	Hyper Converged Micro Cluster
CPU	-Intel® Xeon® Processor D-2166NT, 12C / 24 T
	-Intel® Xeon® Processor D-1541 , 8C / 16T
STORAGE CAPACITY	1xM.2 NVMe SSD + 4 x 2.5" SATA SSD
MEMORY	upto 128GB
NETWORK CONNECTIONS	2x 1 GbE, 1x 1GbE RJ45 (IPMI)
	Dual-Port 10 GbE (Interconnection)
GPU(Optional)	NVIDIA GeForce GT 1030 - 384 CUDA Cores, 2GB GDDR5 NVIDIA Tesla P4 - 2560 CUDA Cores, 8GB GDDR5

APPLIANCE SPECIFICATIONS

Nodes Switch Dimensions	4 Nodes
Power Supply	Internal 16 port 10GbE Layer3 switch 452mm(W) X 186mm(H) X 274mm(D)
	750W Redundant power supply
Operating Temperature Acoustics	5°C-25°C
Acoustics	up to 25dBA
Warranty	3 years

HCI READY MICRO CLUSTER

Deploy your HCI or on premise private cloud in minutes, add cloud-based services or applications, and scale to public or hybrid cloud environments on-demand - all under a single management portal

1 management node
or Redundant PSU
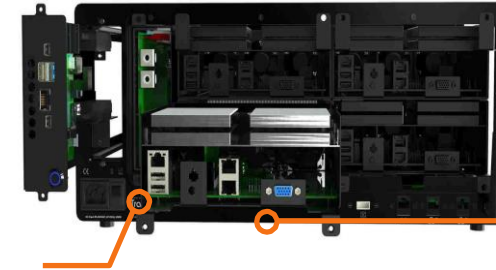
Smart Layer3 switch 16 ports 2x external 10GbE RJ45 ports Wireless Access Point

Up to 4 Intel Xeon compute nodes
4x2.5" storage drives/node
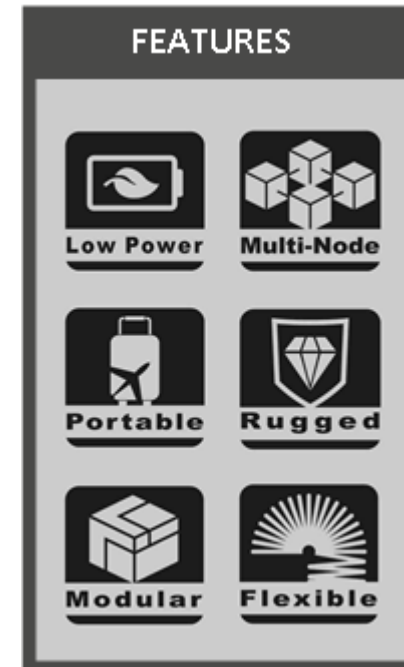
● **Redundant internal inter-connectivity**

2 ethernet gigabit connections /node managed by a smart Layer3 switch.

● **External scalability**

2 external gigabit ethernet connections allow external units to join the cluster environment and/or enable the creation of a daisy-chain configuration.

● **Easy and intuitive serviceability and management**

● Multiple I/O options available /node (behind service panel)

● Modular structure

● **Storage**   All solid state provided via 2 interfaces: M.2, SATA

Each node can have up to 5 storage drives (one /interface) of the following capacity:

	128GB	250GB	500GB	1TB	2TB	4TB
M.2 NVMe	●	●	●	●	●	
SATA 2.5"#1	●	●	●	●	●	●
SATA 2.5"#2	●	●	●	●	●	●
SATA 2.5"#3	●	●	●	●	●	●
SATA 2.5"#4	●	●	●	●	●	●

● **I/O**   Front: Power LED / Storage Activity LED / LAN #1 activity LED / LAN #2 activity LED / Power/Reset Switch

Rear: 2xRJ45 10GBe Ports / 2xRJ45 1GBe Ports / 1xRJ45 1GBe port with IPMI management 2xUSB 3.0 / 1xVGA / 1x USB 2.0 / 1x 12V DC IN

FEATURES

Low Power

Multi-Node

Portable

Rugged

Modular

Flexible

Workstation

Monster Workstation

- New generation of fan-less cases for compact, powerful and silent computers.

- Equipped with a dual and integrated air-cooling solution.

- Optimized for high power electronics, it is the best fan-less air cooling technology of the market.

COMPACT
Can be discretely integrated in any environment thanks to its small format

SILENT
Never work, play or enjoy a movie with parasite noise in background anymore

POWERFUL
The fanless solution able to a high power electronic configurations

STANDARD COMPONENTS
Assemble or upgrade your components easily with standard components

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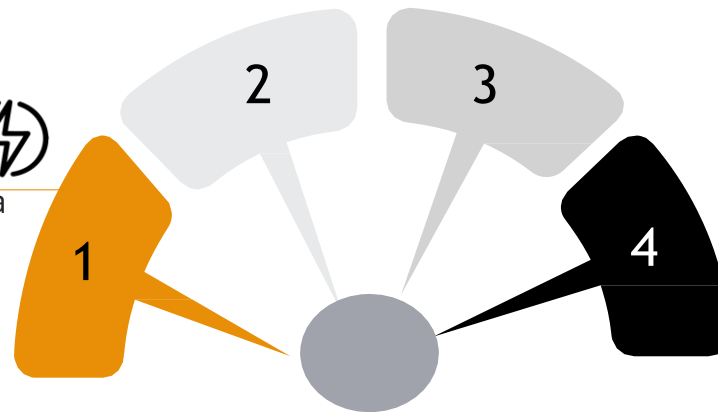## FANLESS CONFIGURATIONS

Assembled PC s	Low	Medium	High	Pro
Processor	Intel Core **i5-9600K** (3.7 GHZ)	Intel Core **i5-9600K** (3.7 GHZ)	Intel Core **i9-9900K** (3.7 GHZ)	Intel Core **i9-9900K** (3.7 GHZ)
Motherboard	Asus ROG STRIX H370-i Gaming	Asus ROG STRIX H370-i Gaming	ASRock Z390 Phantom Gaming-ITX/AC	ASRock Z390 Phantom Gaming-ITX/AC
RAM	Kingston HyperX Fury 1x8GO DDR4 2666 MHz CL16	Kingston HyperX Fury 2x8GO DDR4 3200 MHz CL18	Kingston HyperX Fury 2x8GO DDR4 3200 MHz CL18	Kingston HyperX Fury 2x8GO DDR4 3200 MHz CL18
Graphic Card	**ZOTAC** GAMING GeForce **GTX 1060** AMP Edition	**ZOTAC** GAMING GeForce **RTX 2060** AMP Edition	**ZOTAC** GAMING GeForce **RTX 2070** Blower Edition	**NVIDIA** PNY Quadro **P6000** 24 Go Quad Display Port
SSD	Kingston A400 SSD 480Gb 2.5" SATA-||| SSD	Kingston A400 SSD 960Gb 2.5" SATA-||| SSD	Samsung 970 EVO NVMe SSD, PCIe 3.0 M.2 Typ 2280-1 TB	Samsung 970 EVO NVMe SSD, PCIe 3.0 M.2 Typ 2280-1 TB
Power Supply	Seasonic Focus **SGX-650** 80 Plus Gold	Seasonic Focus **SGX-650** 80 Plus Gold	Seasonic Focus **SGX-650** 80 Plus Gold	Seasonic Focus **SGX-650** 80 Plus Gold
Connectors	4x USB 3.0, 1x HDMI, 1x RJ45	4x USB 3.0, 1x HDMI, 1x RJ45	4x USB 3.0, 1x HDMI, 1x RJ45	4x USB 3.0, 1x HDMI, 1x RJ45
Operating temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Casing	Colour : Black	Colour : Black	Colour : Black / White	Colour : Custom
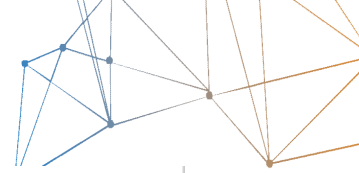
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Cooling options for next datacenter generation

OCtoPus

Range of 21'' servers

Air Cooling

Immersion Cooling

Full rack solution

OCtoPus

- **OCP - What about it ?**
- **Air Cooling**
  - Server comparison
  - Data centers designs and Infrastructure
- **Immersion**
  - Technical adaptation of servers
  - Partners : Submer, GRC

- **Server range classification**

- **Use Cases**

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OCP – What about it?

The **O**pen **C**ompute **P**roject (**OCP**) is a collaborative community focused on redesigning hardware technology to efficiently support the growing demands on compute infrastructure.
The OCP was born from this desire impulsed by Facebook and launched in 2011

Keywords:
- Redesigning hardware and software making it more **efficient**, **flexible**, **and scalable**
- Design sharing

IT Environment with 2CRSI solutions

Need innovative data center
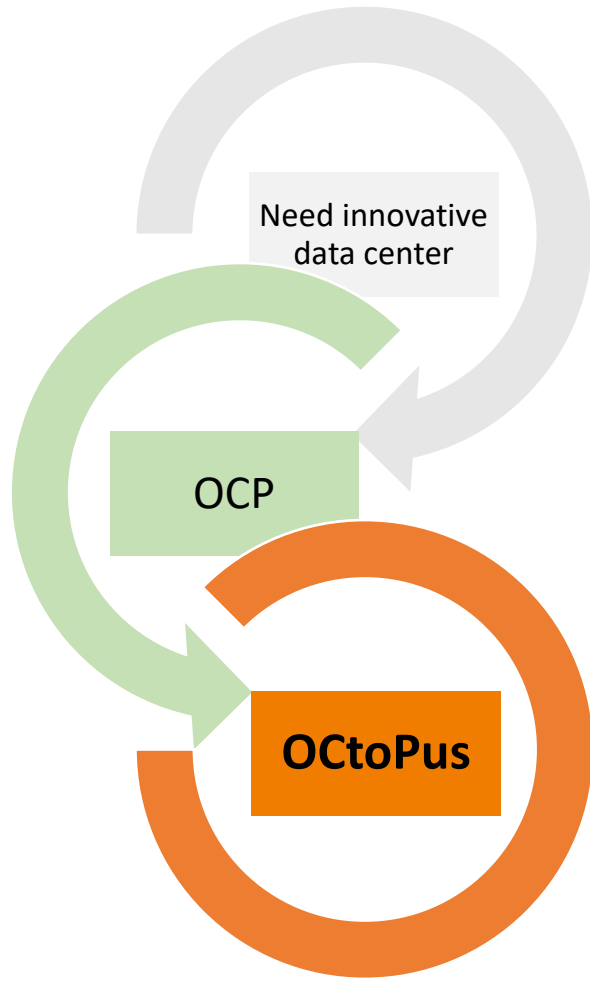
Innovative data center
➔ IEC60364-8-1 + IEC30134-1 rules on Energy Efficiency
➔ Optimization of CAPEX and OPEX
➔ PUE Power Usage Effectiveness

OCP

Open Compute Project (OCP)
➔ Scalability. More efficient, flexible hardware
➔ Performance of Data Centers
➔ Share design with the community

OCtoPus

OCtoPus range by 2CRSi
➔ Best advantages of OCP architectures
➔ R&D innovation for customized design
➔ New technologies from strategic partners

OPEN PLATINUM

OCP ACCEPTED

Quick Connect
Power Distribution Board

OPEN INSPIRED

Smart
Power Distribution Unit

2crsi

Servers

Comparison dimensions

Key features :

Increases airflow and thermal dissipation
Optimize the component management

Serviceability from the front

Modular design of the chassis

Cable-less power distribution system by 12VDC busbars

19''   21''

19''
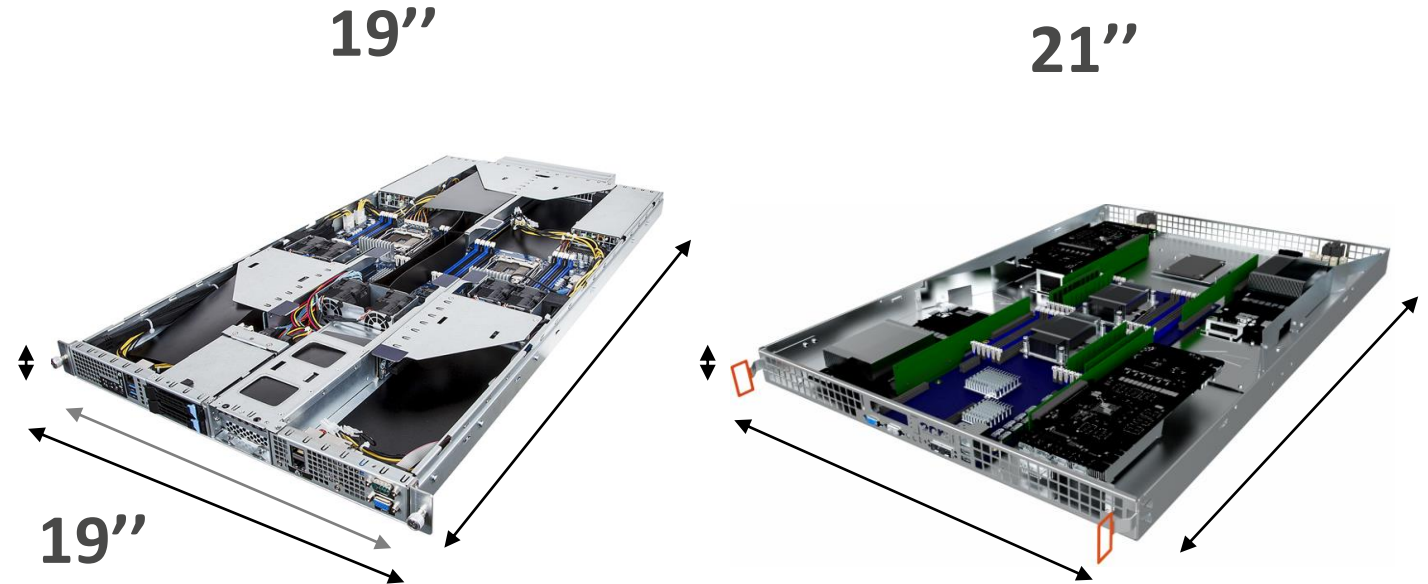
	19'' standard		21'' OCtoPus	
	Inch	mm	Inch	mm
Type of U / OU	**1U to 7U**		**0,5OU to 10OU**	
Width (total)	19''	482	21''	537
Width for components	17,5''	444,5	21''	537
Height (1U or OU)	1,75''	44,45	1,89''	45,5 (48 pitch)
Depth - nominal	30''	760	31,5''	800
Ground surface (m²)	-	0,34	-	0,43
Volume (dm3)	-	15	-	20
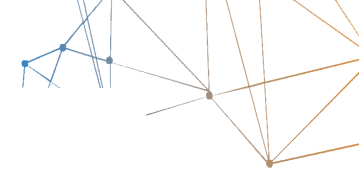
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Unique server designs

All 21" Servers are designed and produced at 2CRSi factory

Unique mechanics and electronics innovations allow the best integration of the latest technologies
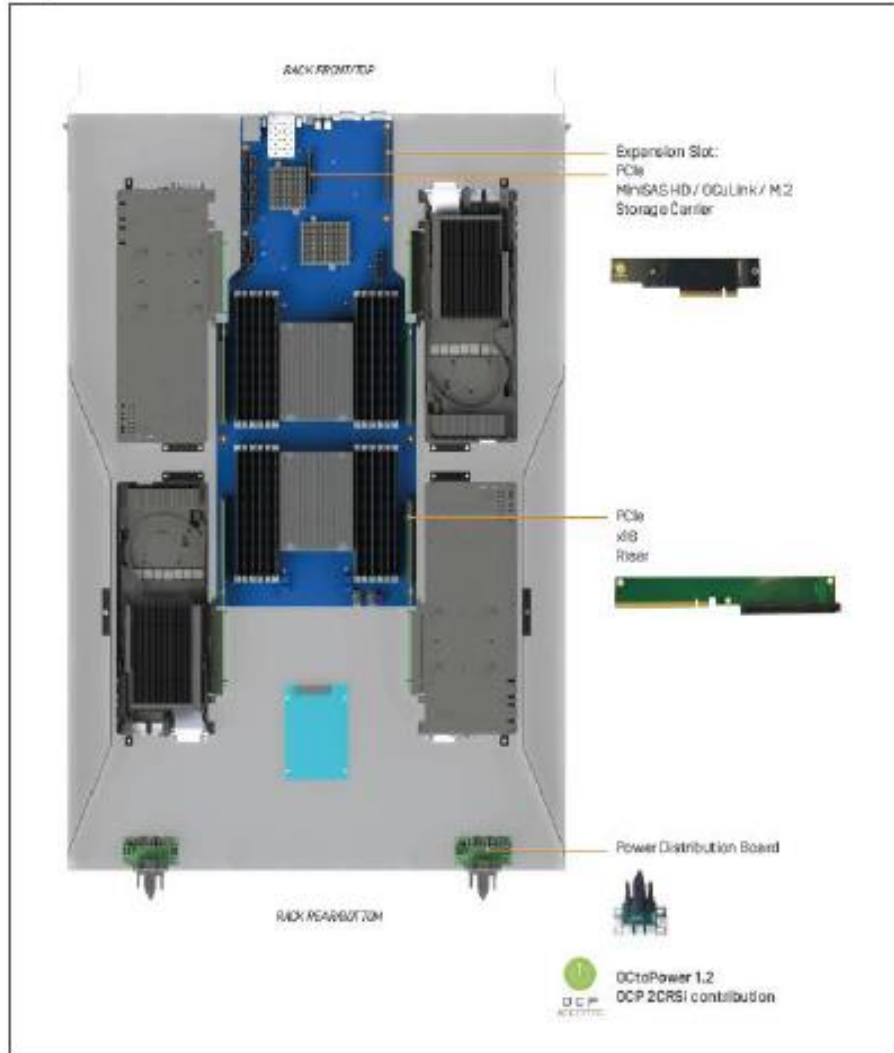
Server range :

Servers with multi graphic cards	Servers with dual-CPU with 2-slot GPU	Servers with multiple single CPU nodes
1 system-node with 2 to 8 GPUs	2 system-nodes with 2 to 4 GPUs	3 to 8 system- nodes

Octopus

Highly flexible infrastucture

Top of rack switch
Management switch

Cloud Gaming
- 8x OCtoPus 1.4B server
- 1x Delta Stingray Power Shelf

High Performance Computing
- 4x OCtoPus 1.4E server *(GPU computing)*
- 2x OCtoPus 4W server *(CPU computing)*
- 2x OCtoPus 4SP server *(CPU computing)*
- 1x Schneider Power Shelf

BlockChain
- 3x OCtoPus 1.13S server
- 1x Artesyn Power Shelf
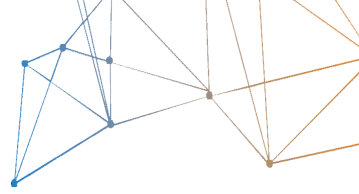
OCtoPus

Power efficiency	Performant Servers	Easy maintenance	21" Rack

Shared cooling ▶ **$** ◀ **Shared energy**

TCO

Up to 24 compute servers per rack

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OCP Rack

24 OpenU servers – 3 independant Pods – TOR & management Switches

600mm (W) x 1067mm (D) x 2100mm (H)
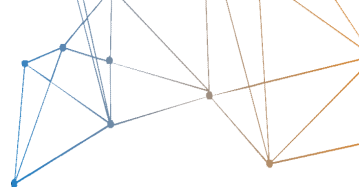
Complete range of 21" solution in rack
Highest performance Best profitability High flexibility

Perfect large scale deployment ideal for simulation, AI, deep learning, VDI, Cloud gaming, rendering or CAD.

$ **LOWER TOTAL COST OF OWNERSHIP**

Green IT

OpenU reserved for TOR switch and management switch

2x redundant monitored power distribution units

— 3x pods

POD FRONT VIEW

4 OpenU : 4x servers

1 OpenU : Free space

3 OpenU : 1x Power supply unit including up to 8 power modules with redundancy from N+1 to N+N.

POD REAR VIEW
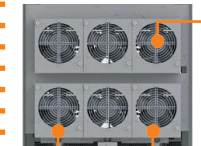
6x managed fans with automatic adaptive cooling

BusBar coming from Power supply units for powering pods

RACK FRONT
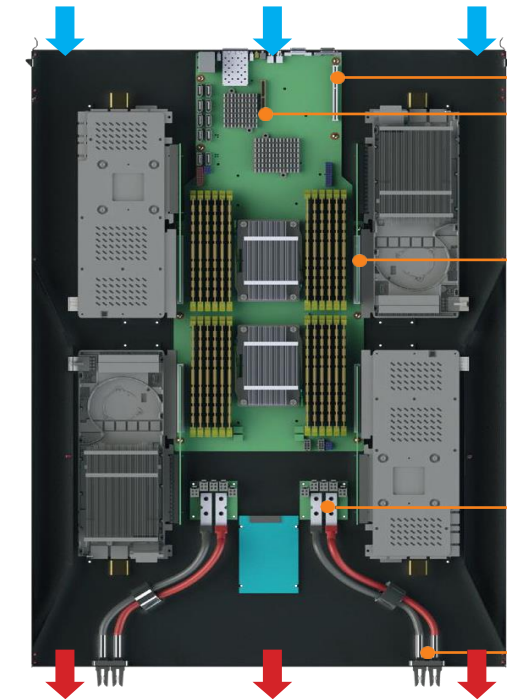
OCP Mezzanine

PCIe M.2 Storage Carrier

PCIe Right-angle Riser

Power Distribution Board

Redonant Power Supply

RACK REAR

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Immersion Cooling Technology
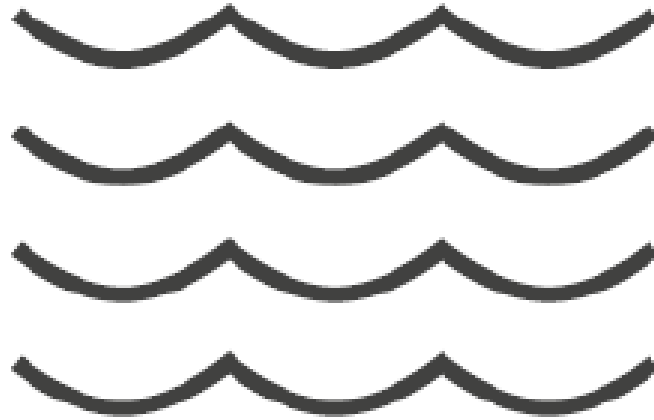
What is a Immersion Cooling ?

Also known as liquid submersion cooling, it is the practice of submerging computer components or full servers in a thermally, but not electrically, conductive liquid (dielectric coolant).
This method is slowly becoming popular with innovative datacenters in the world.
IT Hardware or servers cooled in this manner don't require fans and the heat exchange between the warm coolant and cool water circuit usually occurs through a heat exchanger (i.e. heater core or radiator).

Single-Phase coolant never changes state, it never boils or freezes and always remains in a liquid form. The coolant gets pumped to a heat-exchanger where heat is transferred to a cooler water-circuit.
This technique uses "open baths", as there's little (or no) risk of the coolant evaporating:

Dry cooler / Adiabatic cooling tower

Secondary water loop

Cold water input

Warm water output

Immersion tanks

2crsi
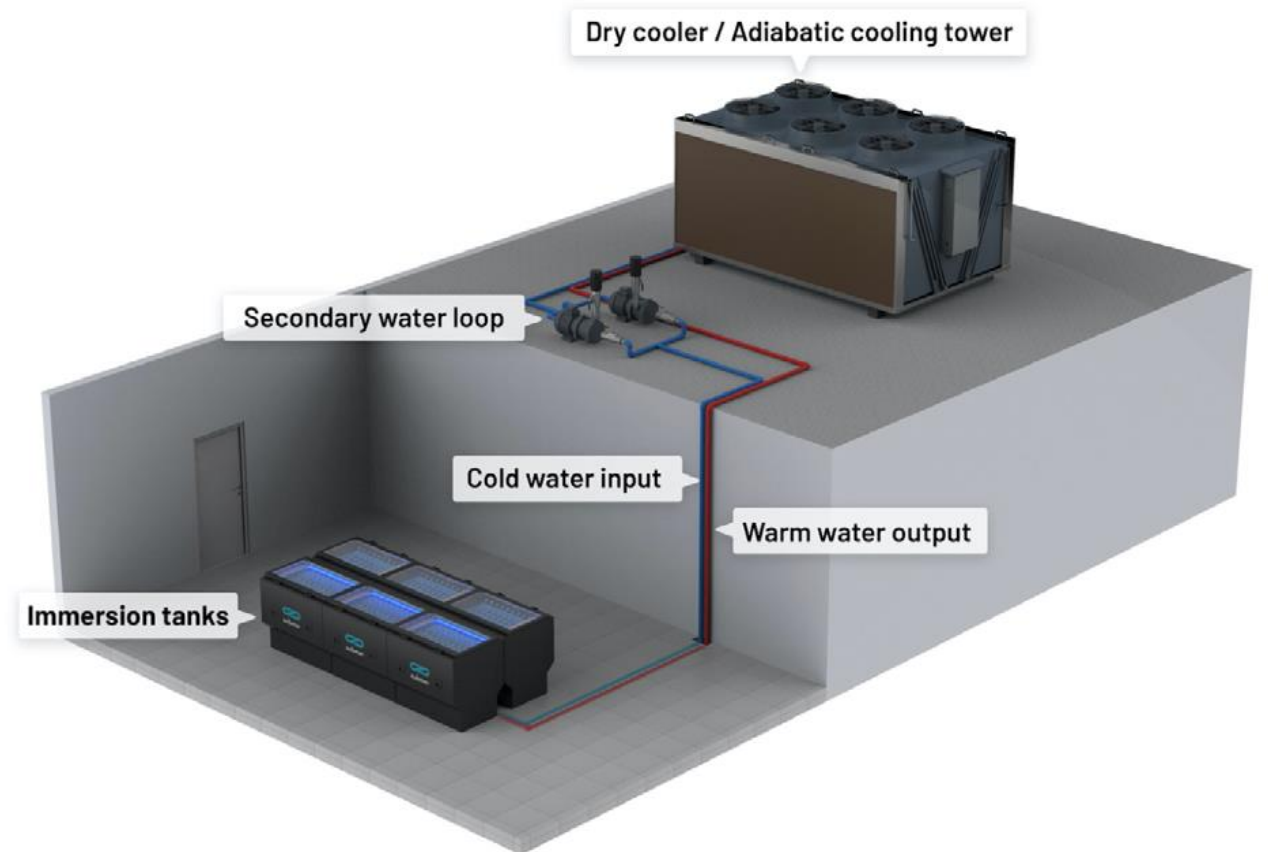
Features & advantages

Highly Efficient

- Great heating dissipation with **reduction up to 95% of cooling OPEX**

- **PUE <1.03**

- Simple and safe to handle

- Lower TCO

- Lower complexity
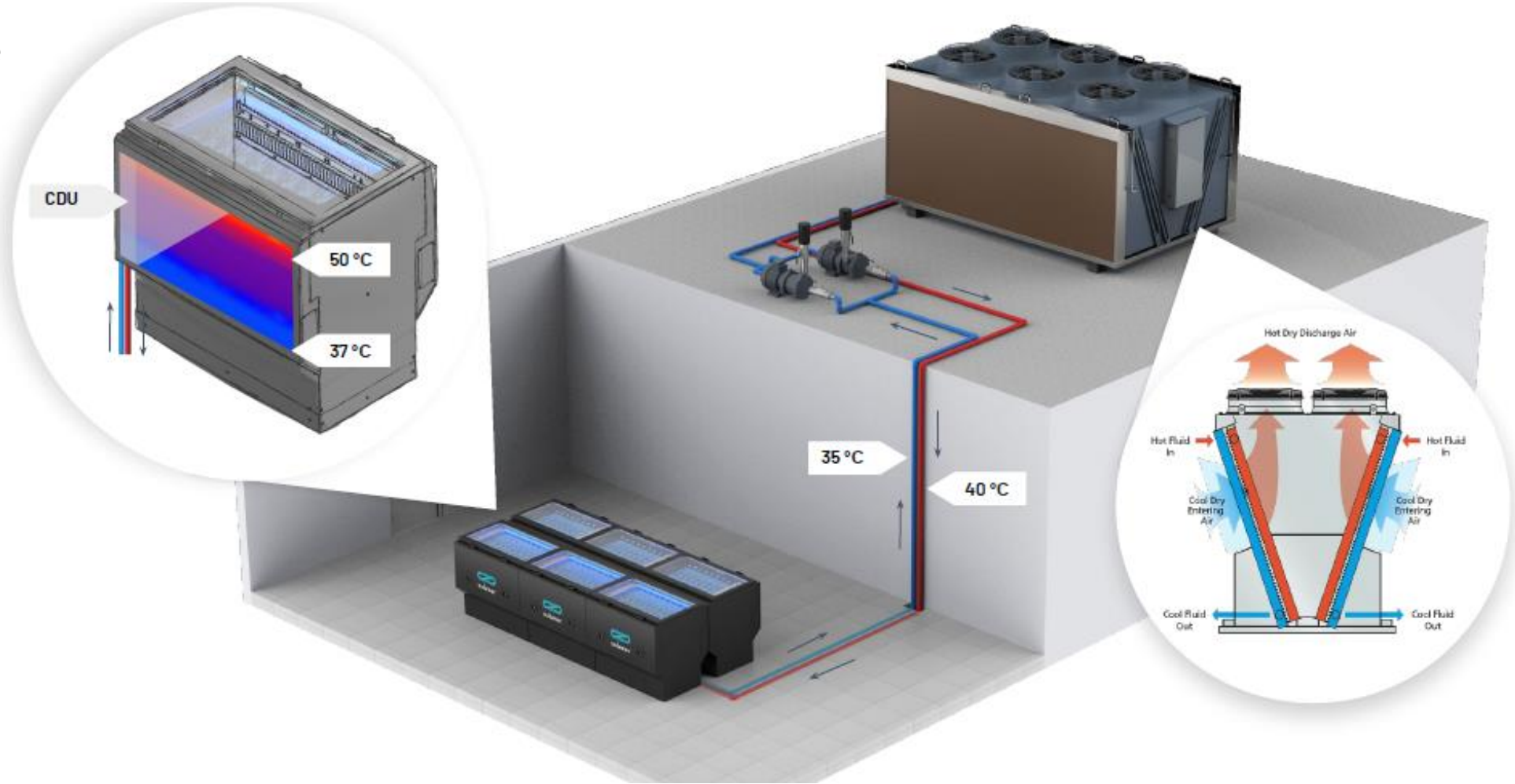
Features & advantages

Ultra Dense

- **85-97% Less space** compare to regular air–cooled racks

- Rapid Deployment (outer space, white space, Raw space)

White Space

Outer Space

Raw Space
– 50% CAPEX
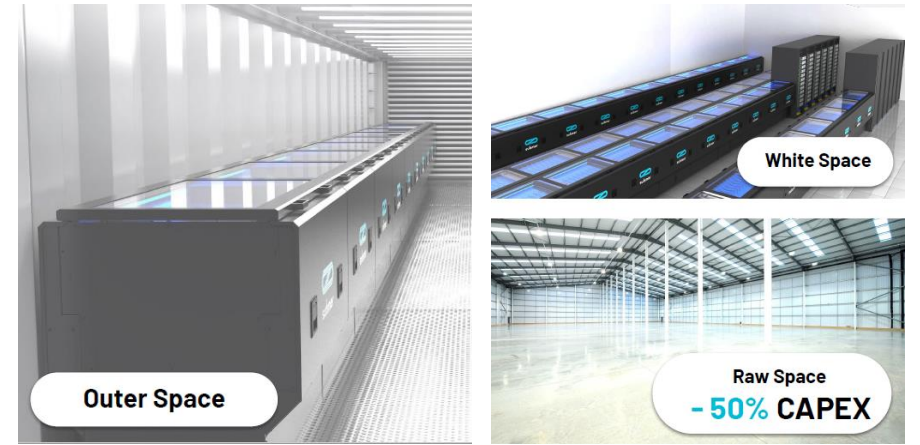
200 regular air-cooled racks

Space > 1,000m²
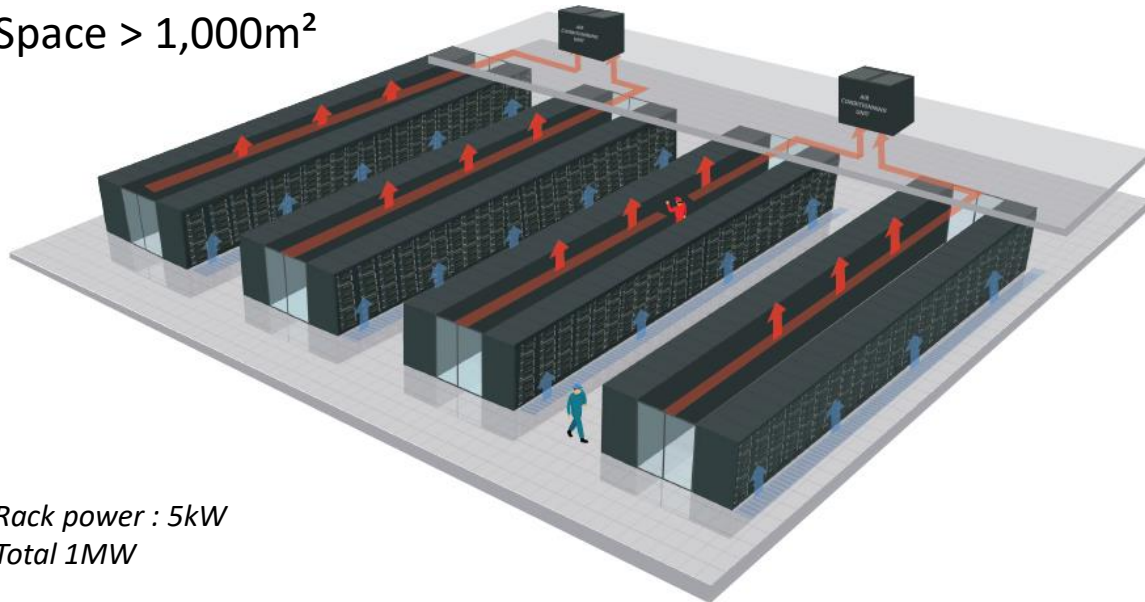
Rack power : 5kW
Total 1MW

20 immersion cooled racks

Space < 30m²
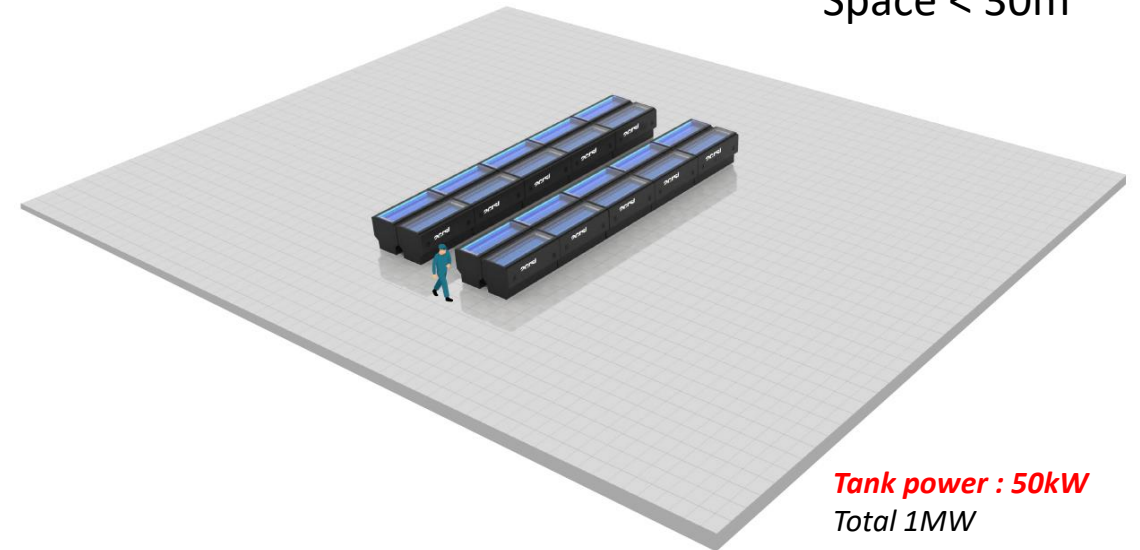
Tank power : 50kW
Total 1MW

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Features & advantages

Reliability

- High Life-time for the IT components (no fluctuation of T°)

- Improve MTBF (no fans = less failures)

- Server continue to operate in case of breakdown up to 4 hours

Liquid temperature in case of power shutdown
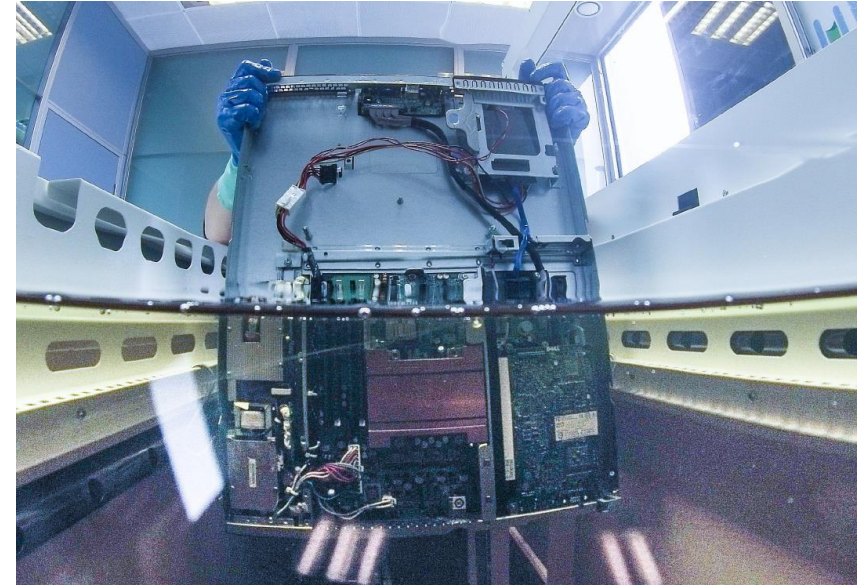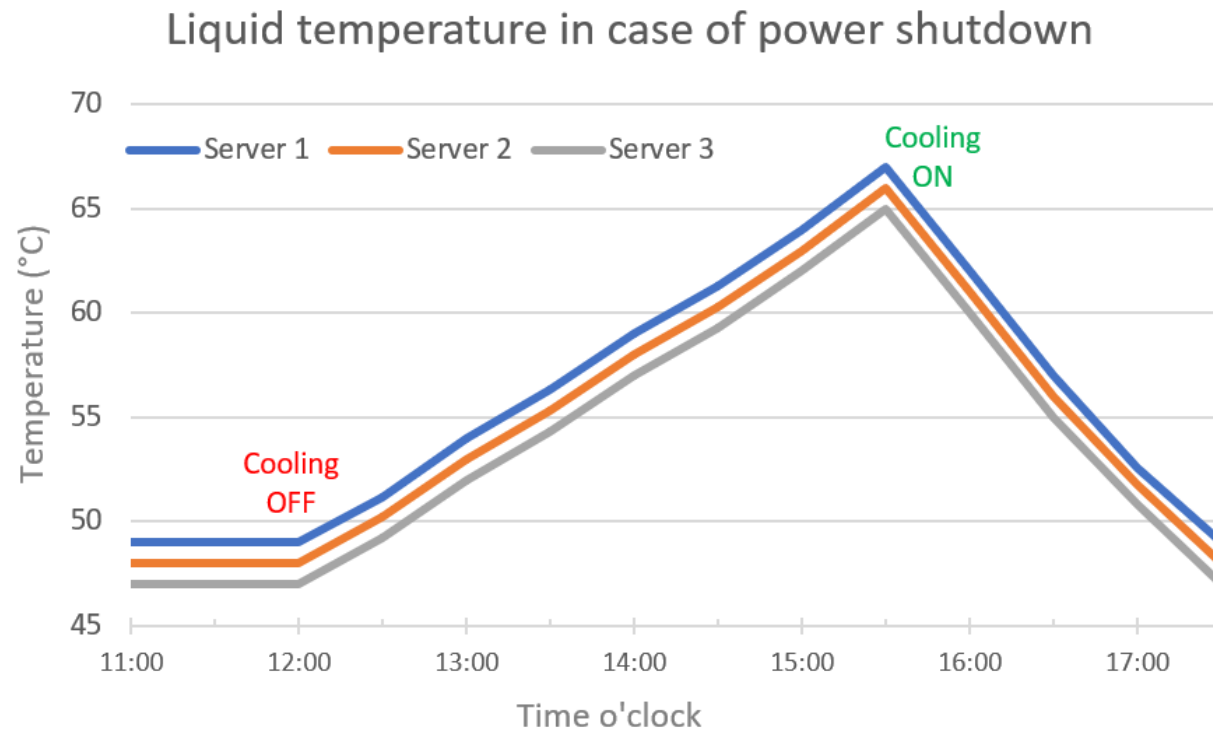
Temperature homogenitiy
gradual and slow increase of temperature in the tank

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Features & advantages

Sustainable

45% Reduction in Carbon Emissions

Carbon emissions from computing

6% — Current Electricity Consumption

4% — CO_2 Emissions

20% — Electricity Consumption by 2025

1MW Datacenter with regular Air

66,000 MT of CO2

>

1MW Datacenter with Immersion

36,000 MT of CO2

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Immersion Servers : How we make our Servers ready for Immersion

19'' server

21'' server → OCP Format
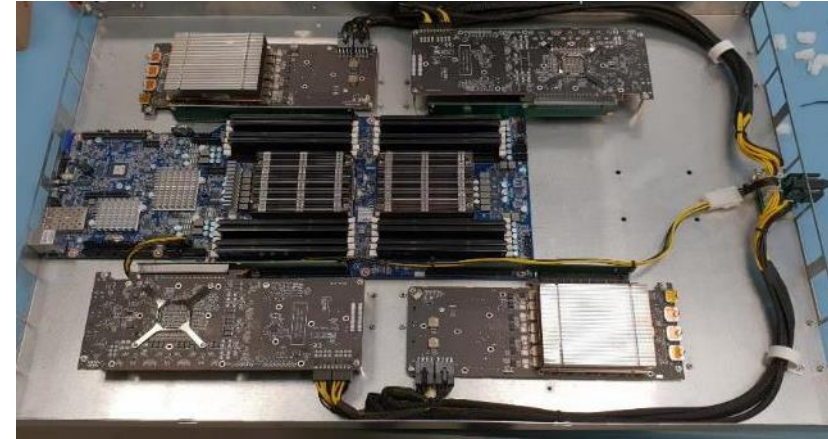
✓ **Ensure component compatibility**

→ Ex : No classic HDD, no optic fiber, no Skylake for the moment, etc.

→ Cables compatibility in dielectric liquid ; Power or Network. Peel of warranty labels

✓ **Remove or disable all fans**

→ change the firmware if necessary or remove power supply

OCtoPus is ready* see list. Std OCP servers needs rework to make it suitable

✓ **Remove the thermal paste**

→ Put an indium foil for the CPU and a thermal grease for the GPUs

✓ **Do not block the heat flow**

→ Configuring components in the server (heatsink fins parallel to liquid flow)
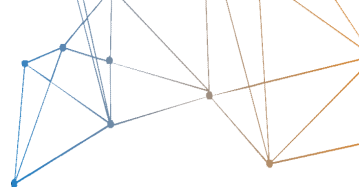
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2CRSI's Immersion Cooling Technology Partners

submer

SRC

2CRSI's Server Product Profile for Air Cooled and Immersion Cooled Datacenters

Product range classification

Octopus	1	.4	B
Range name			

Number of system-node	Number of GPU	Type of CPU
1	empty = no GPU	SP = Skylake SP
2	up to 2	E = Epyc
3	up to 4	B = Broadwell
4	up to 8	W = Xeon W
5		X = Intel core X
8		H = Xeon E-2xxx
		R = Ryzen
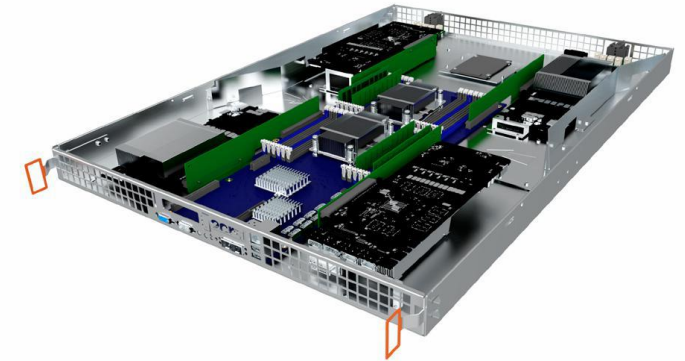
OCtoPus 1.4B

En particulier, l'Octopus « 3 » a besoin d'être intégré dans tes présentations. Il est à noter les noms suivants :

Xeon E-22xx => Octopus 3H
Xeon W-22xx => Octopus 3W
Xeon W-32xx => Octopus 3SW
Xeon Scalable Dual Socket => Octopus 3SP
Xeon D-21xx => Octopus 3DS
Xeon D-16xx => Octopus 3DH
AMD EPYC ROME Single => Octopus 3E
AMD EPYC ROME Dual Socket => Octopus 3EE
AMD EPYC Embedded 32xx => Octopus 3Z
AMD Ryzen 3xxx => Octopus 3R

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Product range over view (multi graphic cards)

| Multi graphic cards | | Optimized for use case | | | | | features | | | | | | Cooling option | |
Servers	Node	Rendering	AI & Deep Learning	HPC	GPU Virtualization	Big Data	CPU (max)	internal fan	Open u	GPU (max)	HDD	SSD	Air Cooling	Immersion
OCtoPus 1.2SP	1	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	-
OCtoPus 1.2B	1	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	yes
OCtoPus 1.2E	1	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	yes
OCtoPus 1.4SP	1	yes	yes	yes	yes	-	up to 4	No	1	up to 4	-	-	yes	yes
OCtoPus 1.4B	1	yes	yes	yes	yes	-	up to 4	No	1	up to 4	-	-	yes	yes
OCtoPus 1.4E	1	yes	yes	yes	yes	-	up to 4	No	1	up to 4	-	-	yes	yes
OCtoPus 1.8SP	1	yes	yes	yes	yes	-	up to 2	No	2	up to 8	-	-	yes	yes
OCtoPus 1.8B	1	yes	yes	yes	yes	-	up to 2	No	2	up to 8	-	-	yes	yes
OCtoPus 1.8E	1	yes	yes	yes	yes	-	up to 2	No	2	up to 8	-	-	yes	yes
OCtoPus 2.2SP	2	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	-
OCtoPus 2.2B	2	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	yes
OCtoPus 2.2X	2	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	yes
OCtoPus 2.2E	2	yes	yes	yes	yes	-	up to 2	No	1	up to 2	-	-	yes	yes
OCtoPus 2.4SP	2	yes	yes	yes	yes	-	up to 4	No	1	up to 4	-	-	yes	-
OCtoPus 2.4E	2	yes	yes	yes	yes	-	up to 4	No	1	up to 4	-	-	yes	yes

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Product range overview (multi system-nodes without GPU)

Multi system-nodes		Optimized for use case					features						Cooling option	
Servers	Node	Rendering	AI & Deep Learning	HPC	GPU Virtualization	Big Data	CPU (max)	internal fan	Open u	GPU (max)	HDD	SSD	Air Cooling	Immersion
OCtoPus 3B	3	-	-	yes	-	-	up to 6	No	1	-	-	-	yes	yes
OCtoPus 3SP	3	-	-	yes	-	-	up to 6	No	1	-	-	-	yes	-
OCtoPus 3E	3	-	-	yes	-	-	up to 6	No	1	-	-	-	yes	yes
OCtoPus 3S.B	3	-	-	yes	-	yes	3 integrated	No	1	-	up to 9	up to 9	yes	yes
OCtoPus 3S.SP	3	-	-	yes	-	yes	3 integrated	No	1	-	up to 9	up to 9	yes	-
OCtoPus 3S.X	3	-	-	yes	-	yes	3 integrated	No	1	-	up to 9	up to 9	yes	yes
OCtoPus 3S.W	3	-	-	yes	-	yes	3 integrated	No	1	-	up to 9	up to 9	yes	yes
OCtoPus 3S.R	3	-	-	yes	-	yes	3 integrated	No	1	-	up to 9	up to 9	yes	yes
OCtoPus 4B	4	-	-	yes	-	-	up to 4	No	1	-	-	-	yes	yes
OCtoPus 4SP	4	-	-	yes	-	-	up to 4	No	1	-	-	-	yes	-
OCtoPus 4X	4	-	-	yes	-	-	up to 4	No	1	-	-	-	yes	yes
OCtoPus 4W	4	-	-	yes	-	-	up to 4	No	1	-	-	-	yes	yes
OCtoPus 4R	4	-	-	yes	-	-	up to 4	No	1	-	-	-	yes	yes
OCtoPus 5B	5	-	-	yes	-	-	5 integrated	No	1	-	-	-	yes	yes
OCtoPus 5SP	5	-	-	yes	-	-	5 integrated	No	1	-	-	-	yes	-
OCtoPus 5X	5	-	-	yes	-	-	5 integrated	No	1	-	-	-	yes	yes
OCtoPus 5W	5	-	-	yes	-	-	5 integrated	No	1	-	-	-	yes	yes
OCtoPus 5R	5	-	-	yes	-	-	5 integrated	No	1	-	-	-	yes	yes
OCtoPus 8W	8	-	-	yes	-	-	8 integrated	No	1	-	-	-	-	-

MARKETS AND KEY CLIENTS WORLDWIDE

ISP CSP ASP

BLADE

OVH.com

free

Software Editors

ubuntu
Delivered by Canonical

DOVER

GAMESTREAM

Science & Education

ICM
Institut du Cerveau
et de la Moelle épinière

BIOMÉRIEUX

ircad ihu
IMAGE-GUIDED SURGERY CENTER

Industry
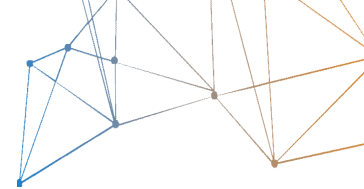
SNCF

SOLYSTIC
a NORTHROP GRUMMAN company

CGGVeritas

Defense & Government & Collectivity

AGENCE NATIONALE DE LA SÉCURITÉ DES SYSTÈMES D'INFORMATION
ANSSI

GEUTEBRÜCK
Excellence in Video Security

Royal Mail

Use case – OCtoPus for Cloud Computing
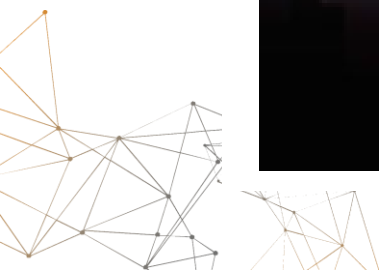
Their Need

• Implementation of ultra-powerful computers into the cloud

• Design a power efficient infrastructure

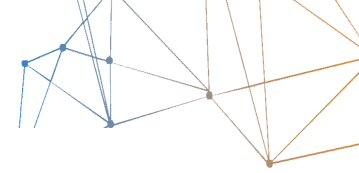• Provide a very large-scale solution

BL/ADE

Blade enables large audiences to access high-end virtualised PCs in the cloud.
In order to implement this service, extremely effective server infrastructures deployable on a large-scale are needed.

Key benefits

- 1st design of OCtoPus Rack 24, based on OCP standards
- Custom made server configurations adapted to cloud computing problematics
- Enables 23,2% of energy savings compared to standard systems
- Flexible and scalable solution with more than 5000 servers deployed

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Use case – OCtoPus for HPC

Their Need

• Renew and grow their IT infrastructure with high density HPC servers

• Get the best profitability of their IT infrastructure
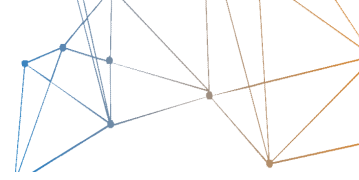
• Provide a very large-scale solution

CGG

Leader in cutting-edge geoscience. They acquire data and images of the Earth's subsurface and provide state-of-the-art software and services for analyzing that data.
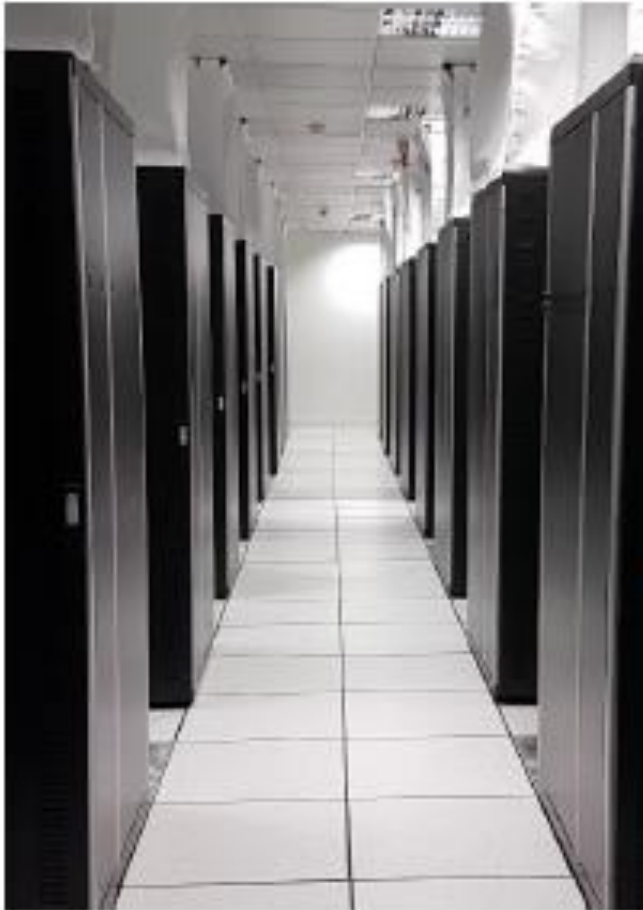
Key benefits

- Custom made servers adapted to CGG workloads
- Agile approach with project centric management that enables a fast and effective customer relation
- Scalable solution that easily follows the lifecycle of the datacenter with more than 2400 servers deployed

Use case – OCtoPus for Computing power rental

Their Needs

• Renew their IT infrastructure with high density HPC servers

• Get the best profitability of the IT infrastructure

• Provide a very large-scale solution

GREEN COMPUTING

Service provider dedicated to HPC environments, using green IT solutions to provide a competitive and powerful high-end housing and Compute rental based on a Tiers3+ datacenter
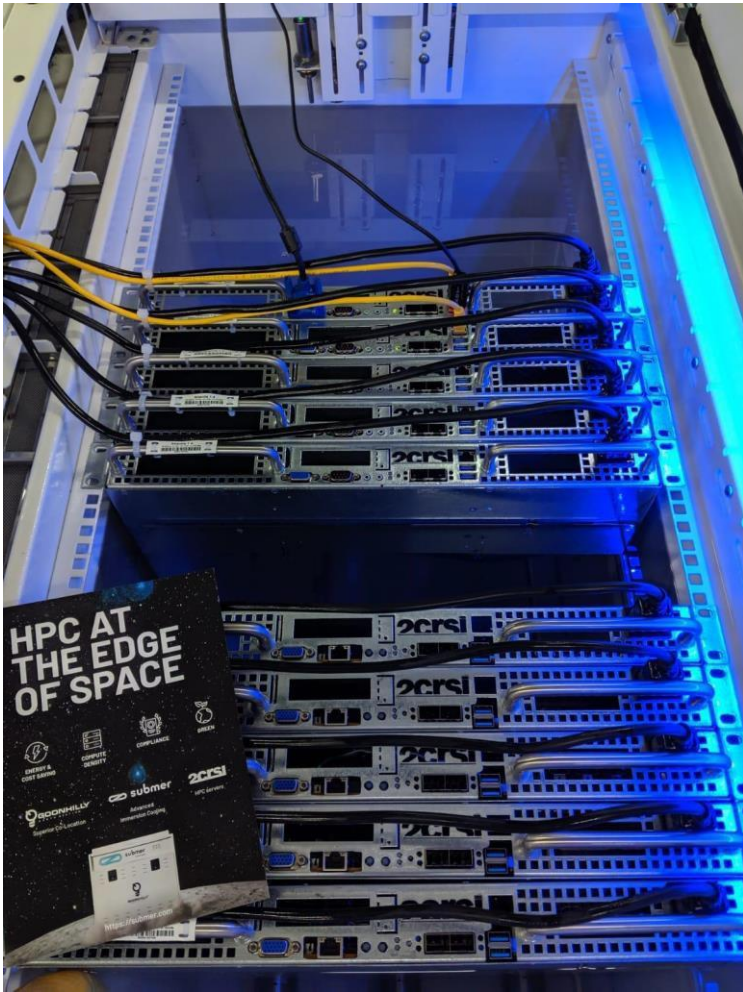
Key benefits

- Panel of server configurations adapted to different service levels
- Maintenance simplified and fastened thanks to the OCP smart design

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2CRSI Immersion Installation- Customers
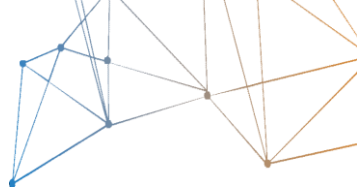
CGG

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