





OCP-TAIWAN-DAY

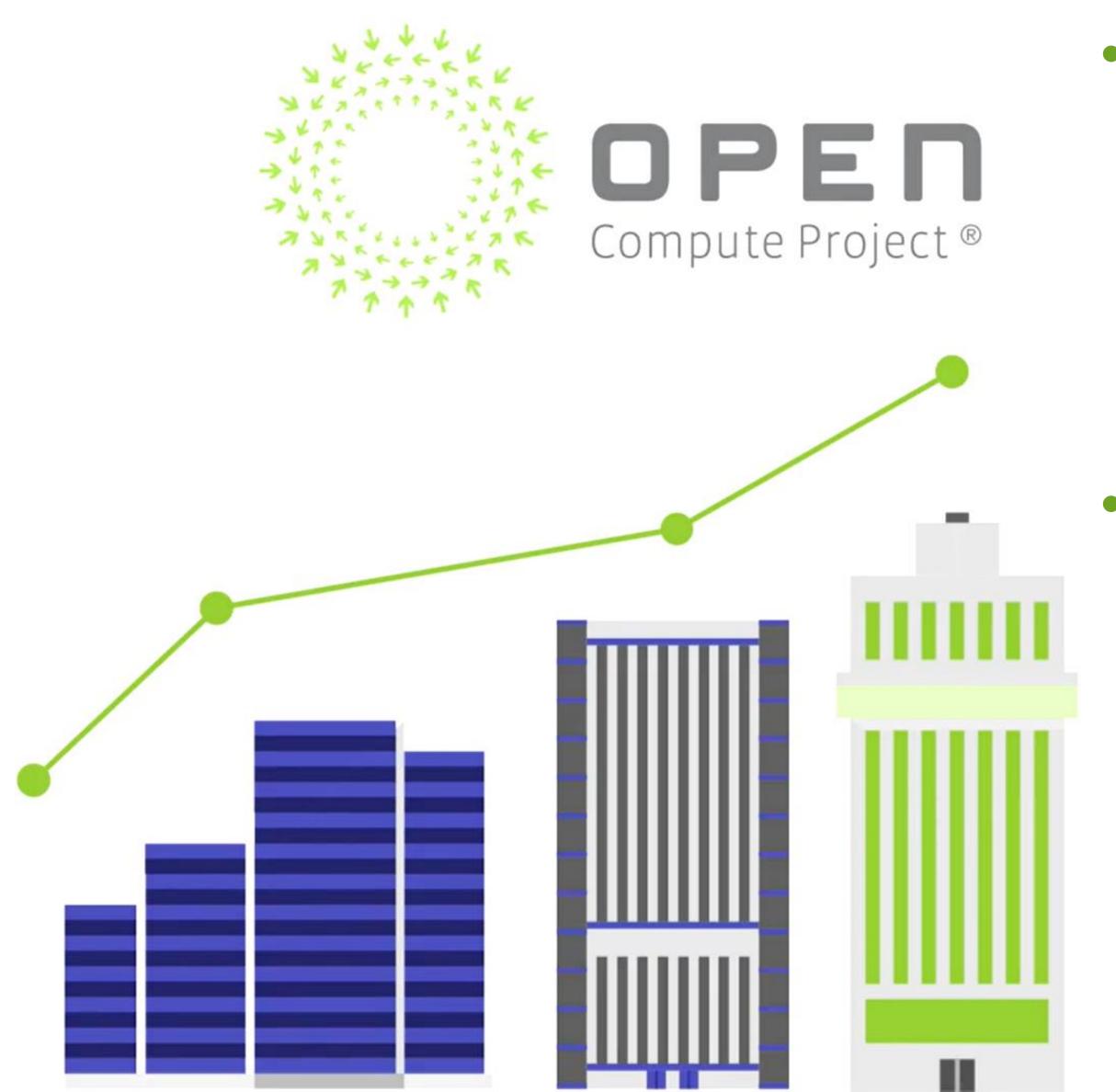
Road to 5G - AI - Edge Computing

IT Gears for Modern Data Center Efficiency

▶ Dr. Sunlai Chang, Senior VP and CTO of Wiwynn



OCP COMMUNITY HAS BEEN GROWING



Hundreds Member Companies



Thousands of Engineers Working
 Together on 10 OCP Projects



OCP TENETS – Contributions & Workshops are attested with



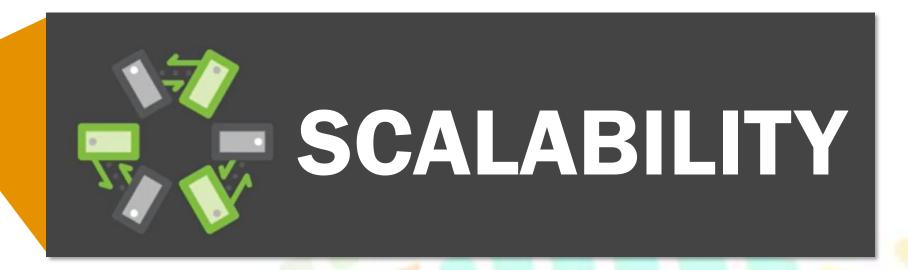
Design Contribution & Workshops

ALL PRODUCTS

All the design contributions and workshops are attested to satisfy the 4 OCP tenets.

Accepted & Presented

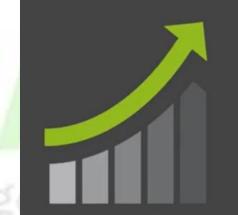








Road to 5G · Al · Edg



IMPACT



Bring OCP Benefits to New Applications - 3 G



OCP is collaborating with other technical groups such as Linux
 Foundation & Open Network Foundation to extend its impact.



- Telco is embracing Openness to allow Commercialized Off the Shelf Equipment.
- ▶ OCP can benefit the 3 required features eMBB, mMTC, URLLC of 5G.

Latency

mMTC

Massive Machine
Type Communication

URLLC

Ultra-reliable
Low-Latency
Communication

Efficiency & Impact

Throughput

Res Al Edge Computing

WIWYNN EP100 Platform

The Platform Is Based on the OpenEDGE Project with OCP Ingredients

- Open Hardware for COTS & Open Software
- Expedite the Eco System of Openness
- Enjoy OCP Products & Benefit





Open BMC

Den Open Mc Edel

OCP ESCOLOS Mezz N





WIWYNN EP100 Platform

The Platform Is Based on the OpenEDGE Project with OCP Ingredients

- > 3U Short-depth Chassis with Flexible Nodes for Far Edge Environment
- OpenRMC Development Platform for System Management
- Host COTS Sleds for Various 5G Applications
- Pooled Power Supply for Energy Efficiency & Utilization



SPEC	
Flexible Node	1U Half-width , 2U Half-width, 1U Full-width for Various Computing Power New Features Added-on, such as Switch, Storage, etc.
Front I/O Interface	Power, Storage Bay, OCP Mezz 3.0 NIC, PCIe Card, USB, Debug
Power Supply	Fit 48V DC, -48V DC and 220 AC PSUs
Dimension	3U 19" Rack Mount System; 448 x 430 x 130.6 (mm)

Will be Available with Software Development Kits

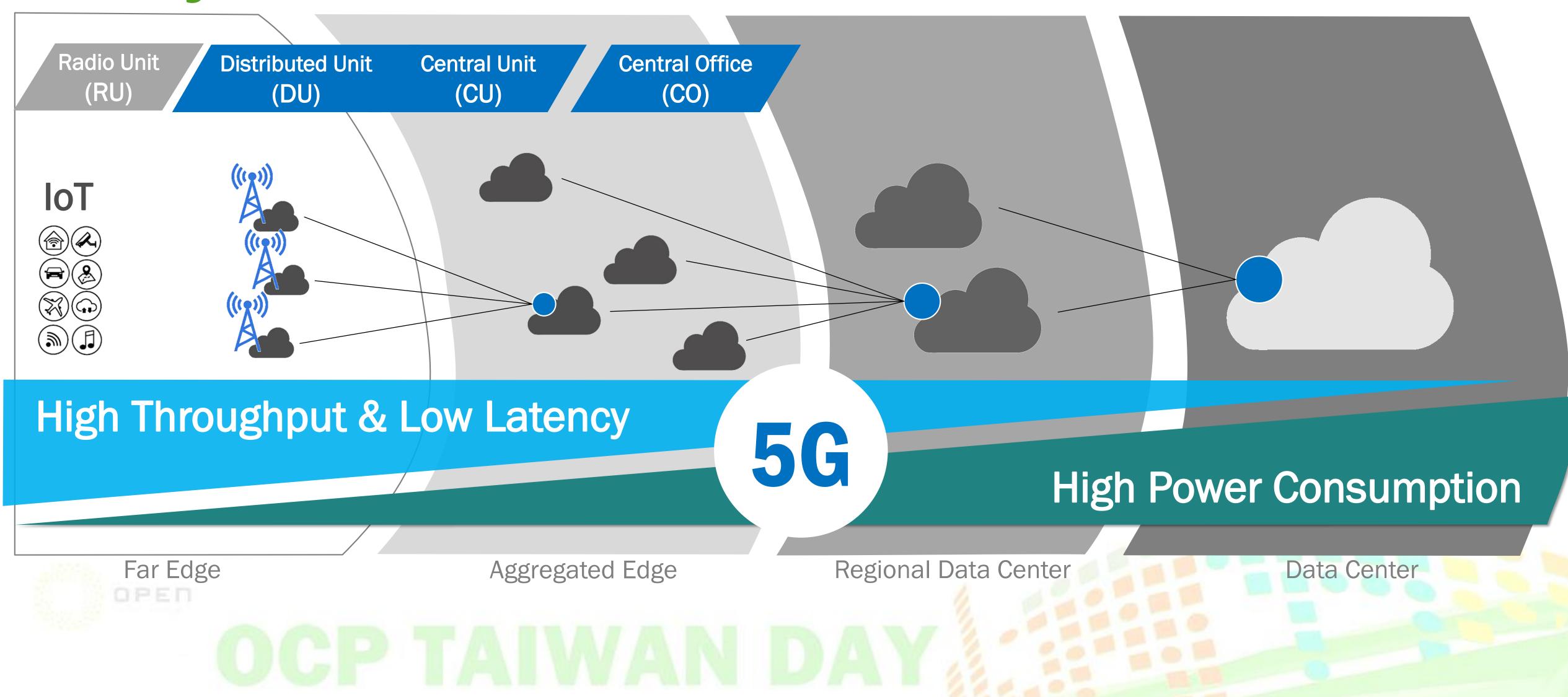






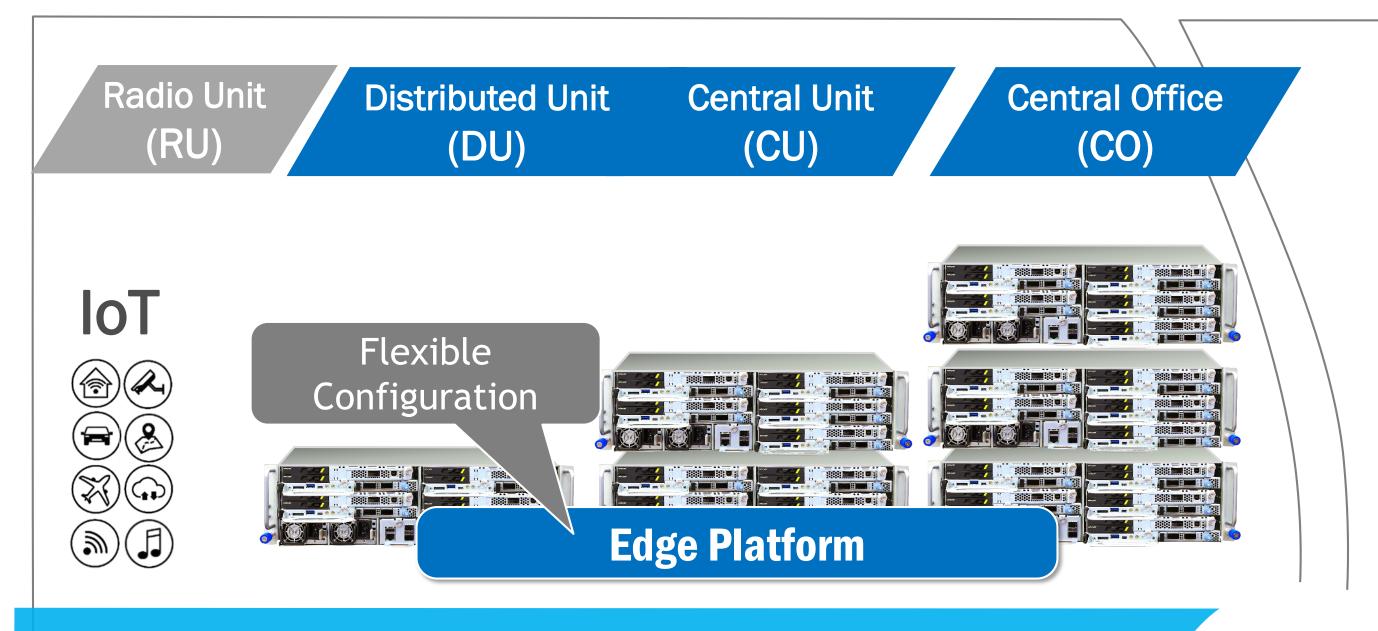


Wiwynn Extends Product Portfolio from DC to MEC



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Wiwynn Extends Product Portfolio from DC to MEC



High Throughput & Low Latency

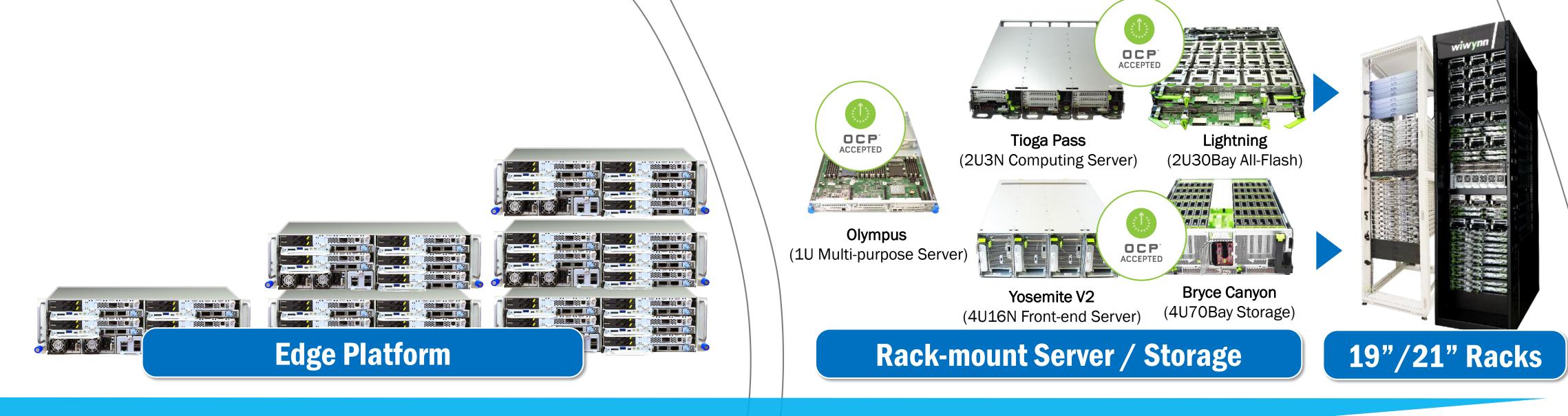
5G

High Power Consumption

EDGE

Configure EP100 sleds for DU, CU, and CO to meet Power Consumption, Latency, and Throughput requirements.

Wiwynn Extends Product Portfolio from DC to MEC



High Throughput & Low Latency

High Power Consumption

CLOUD



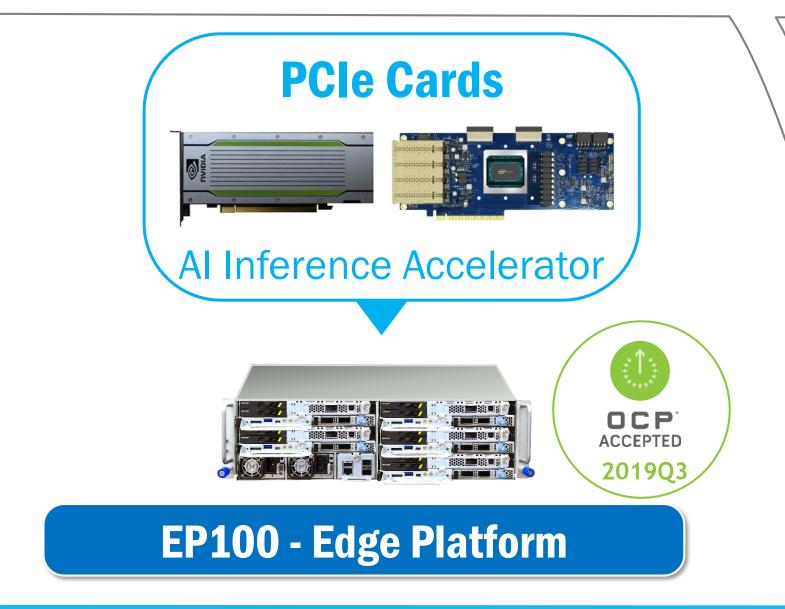
EDGE

OCP TAIWAN DAY

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Achieve Low Latency with Compute Accelerators





- 6x ASIC Accelerators
- 12x M.2 Storage





High Throughput & Low Latency

High Power Consumption

EDGE

From DC to MEC, Wiwynn Offers Comprehensive portfolio for your Al Training and Inference.



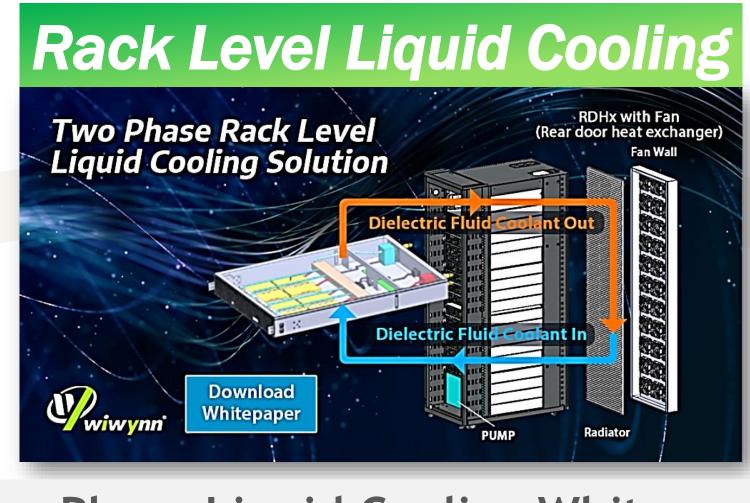
Efficiency, Wiwynn Delivers!

- Improve Data Center Energy Efficiency
- Improve Edge Data Center Efficiency
- Innovate Liquid Cooling
- Advanced Immersion Cooling

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Improve Data Center Energy Efficiency





Two Phase Liquid Cooling Whitepaper

Data Center
Energy Saving

Wiwynn Rack Level Validation Room



48V Immersion Cooling Solution

with 3M™ Fluorinert™ Electronic Liquids

Improve Edge Data Center Energy Efficiency



Urban Data Center in Asia Pacific



Data Center
Energy Saving

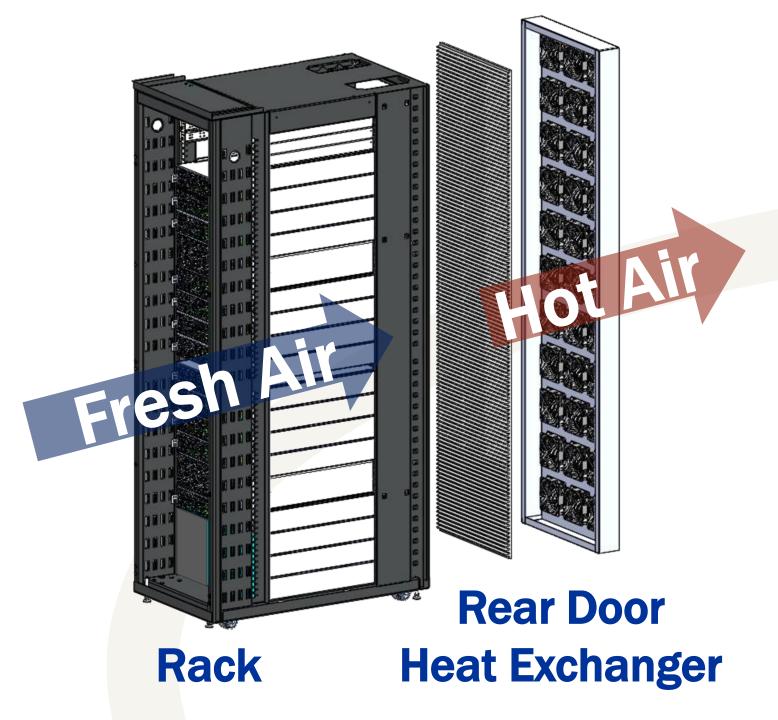
Free Air Cooling

Average PUE < 1.2

Wiwynn Rack Level Validation Room

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Innovative Liquid Cooling





Rack Level Liquid Cooling Optimization

Major DC Customer Recognized

Two Phase Liquid Cooling Whitepaper

Cold Plate
On ASIC

Vapor Outlet

Data Center
Energy Saving

Al Edge Computing

Dielectric Liquid
Cooling

No Facility Change

Advanced Immersion Cooling

Solution for High Power ASICs

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Management & UI Development

48V for High Power Efficiency

Optimization for OCP Server



100 OCP Servers in One Tank

Data Center Energy Saving



48V Immersion Cooling Solution

with 3M™ Fluorinert™ Electronic Liquids

WELCOME TO Wiwynn BOOTH @ TICC 1st Floor

