

An abstract graphic composed of numerous thin, light green lines that swirl and curve together to form a central, irregular shape. The lines are more densely packed in some areas, creating a sense of depth and movement. The overall effect is reminiscent of a stylized, organic form or a complex network structure.

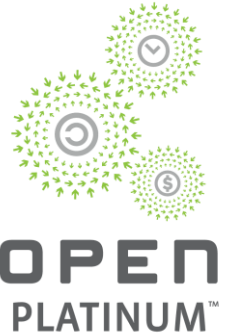
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**OCP**  
SUMMIT

# Next-Gen and Breakout Data Center Technologies for the Cloud & Edge

Ethan Yang, Deputy Manager, Wiwynn

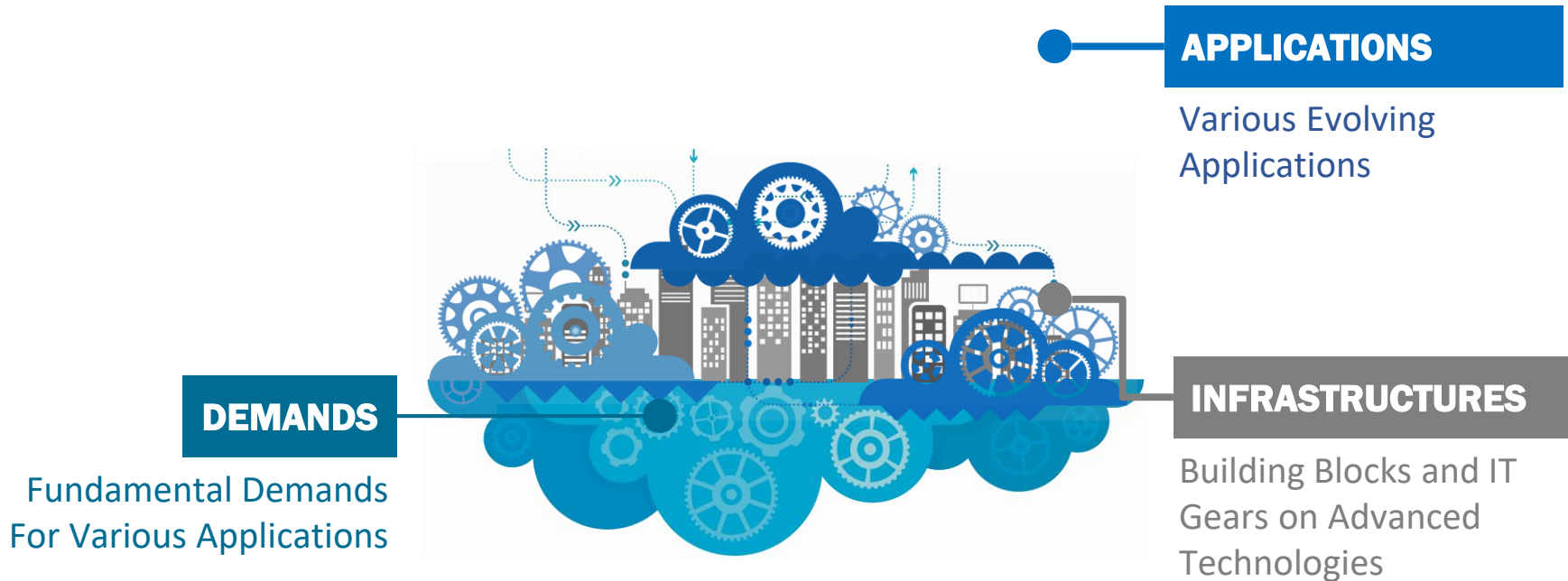


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# OCP Ecosystem Breaks Out Into Year of Edge



# Wiwynn Updates 3 Next-Gen Cloud Infrastructures



**OCP Rack  
Infrastructure**



**19" & Edge  
Infrastructure**



**AI  
Computing**



**INFRASTRUCTURES**

Building Blocks and IT  
Gears on Advanced  
Technologies

# Updated Building Blocks of OCP Rack Infrastructure



## OCP Rack Infrastructure



**Tioga Pass**  
(SV7220G3)



**Yosemite V2**  
(SV7100G2)



**Bryce Canyon**  
(ST7000G2)



**Lightning**  
(ST7200)



**Citrine**  
(SV7400G3)



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# Updated Building Blocks of 19" & Edge Infrastructure



## 19" & Edge Infrastructure



**1U2N Computing Server**  
(SV302G3)



**1U Multipurpose Server**  
(Open19)



**1U Multi-purpose Server**  
(SV5100G3)



**1U16 NVMe JBOF**  
(ST5100)

# Updated Building Blocks of AI Computing



AI  
Computing



**4U8G GPU Server**  
(SV500G3)



**4U16 JBOG**  
(XC200)



**4U16 JBOX**  
(XC200G2)



**HPC Accelerator**  
(HGX-2)

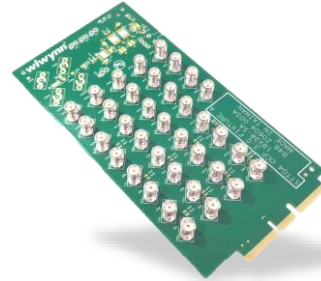
# Wiwynn Updates Next-Gen Cloud Demands



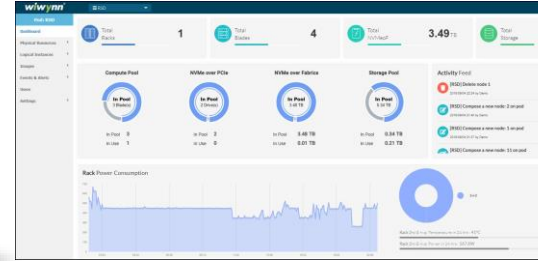
48V Converter Board



2-Phase Immersion Cooling



OCP 3.0 Test Fixture



Resource Pooling

## DEMANDS

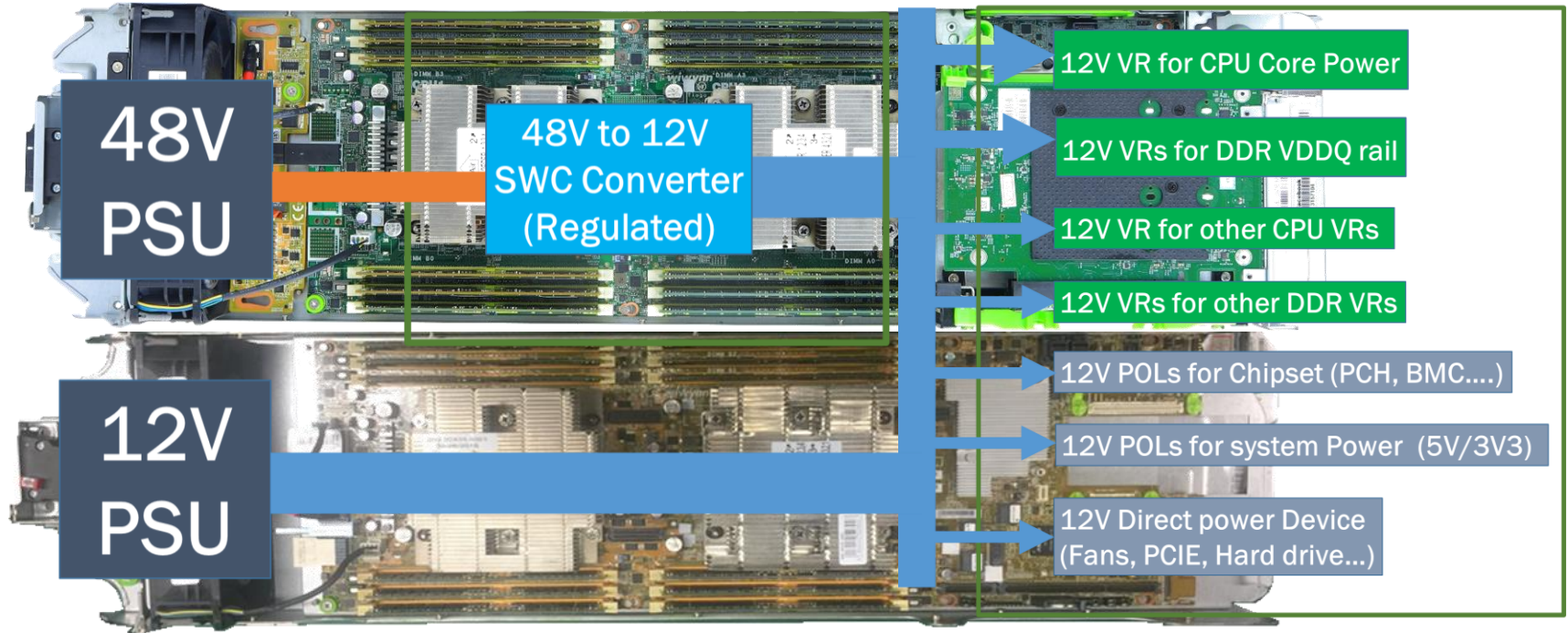
Fundamental Demands  
For Various Applications

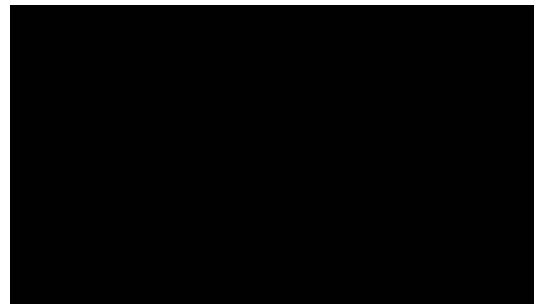


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# Existing 12V Server Utilizes Wiwynn 48V Power Converter Board





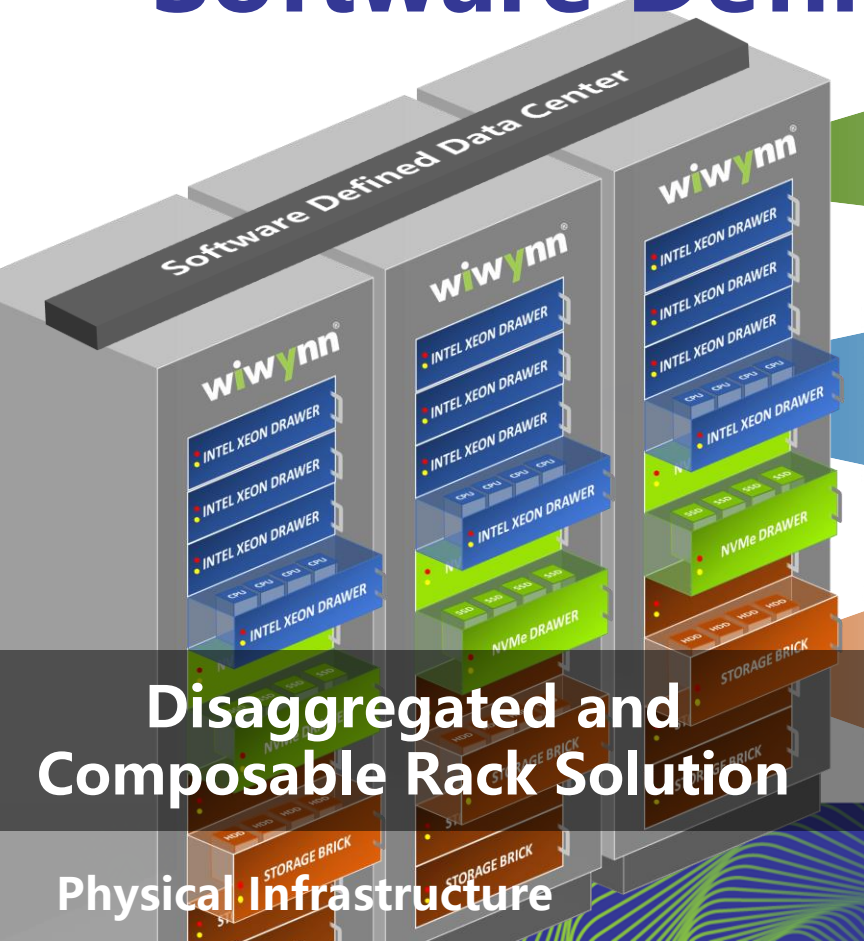
# 2-Phase Immersion Cooling with 48V Tioga Pass Servers



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# Software Defined Data Center



Disaggregated and Composable Rack Solution

Physical Infrastructure



BIG DATA ANALYTICS



CLOUD SERVICE



AI



Scale Up Dynamically



Optimize for Workload

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# RSD Enabled Building Blocks



OCP 12V



OCP 48V



EIA 19"



RSD Enabled



Interoperability



**Tioga Pass**  
(SV7220G3)



**Bryce Canyon**  
(ST7000G2)



**Lightning**  
(ST7200)



**Multi-purpose Server**  
(SV300G3)



**NVMe Storage**  
(ST300)





THE OPEN IT GEARS BY CHOICE



Found at <http://www.wiwynn.com>  
Intel Inside®. New Possibilities Outside.

19" Products

Immersion Cooling

48V

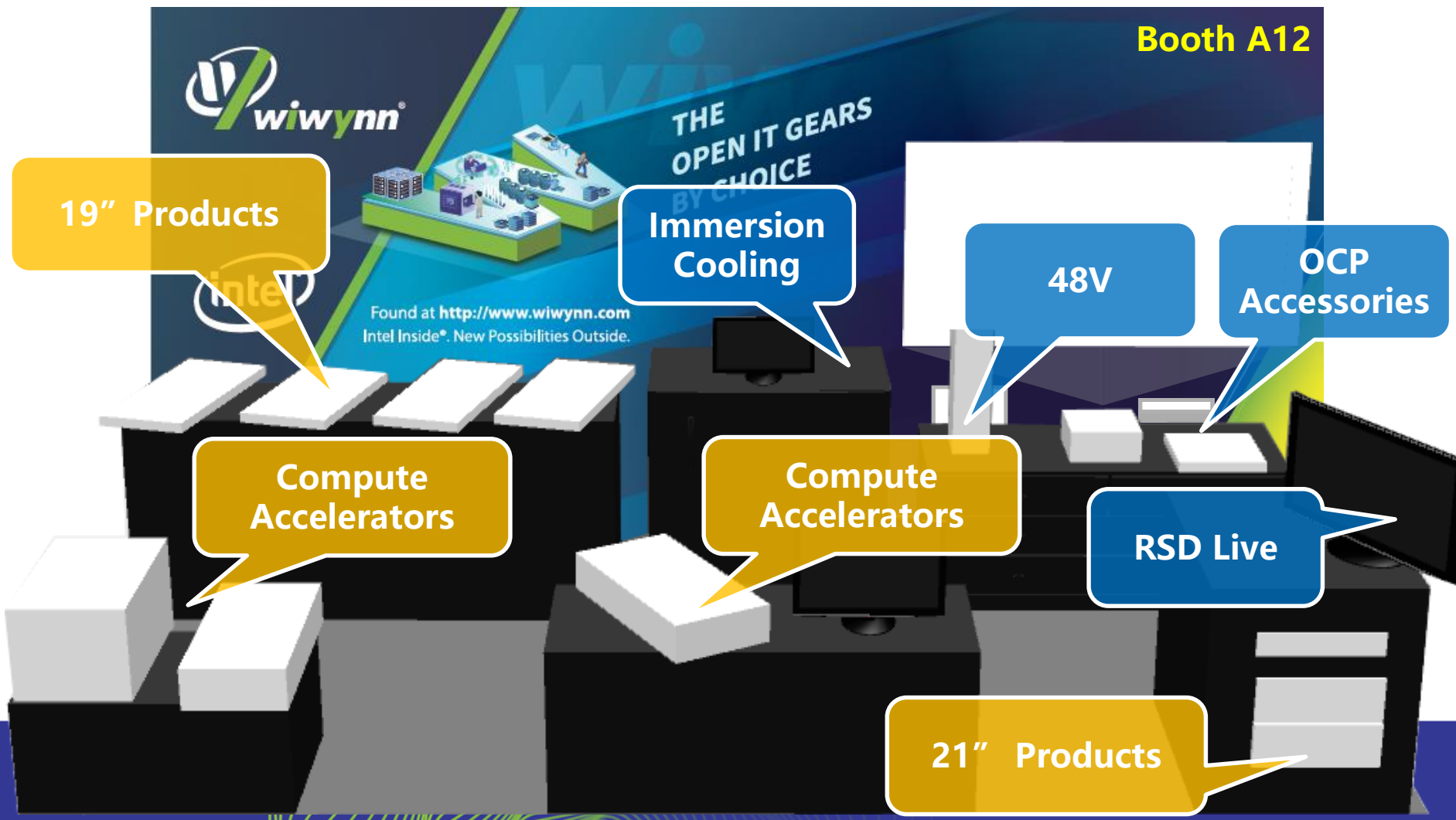
OCP Accessories

Compute Accelerators

Compute Accelerators

RSD Live

21" Products





# Wiwynn Speeches

Date	Time	Project	Topic	Speaker	Location
3/14	2:40pm	Executive Track	Common Building Blocks Product Architecture and Technology for Workload Optimization	Steven Lu	210 BF
3/15	8:30am	HW Management	Modeling Immersion Cooling Compatible with OCP Profile	<i>Shao Yen</i>	Marriott Salon I&II
	8:40am	Rack & Power	48V 2-stage System Efficiency Optimization by using STC Converter with Dynamic Converting Ratio	<i>Sam Yang</i>	210 BF
	2:30pm	Advanced Cooling	Service Oriented 2-Phase Immersion Cooling with 48V Power Solution	<i>Lentis Pai</i>	210 E
	3:40pm	Storage	Learning of Designing Project Olympus JBOF with EDSFF SSD	<i>Mark A. Shaw Antson Chang</i>	212 AB
	4:00pm	HPC & GPU/FPGA	Leverage OCP Design Advantages on EIA 19" Accelerator Server	<i>Gregary Liu</i>	210 A



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OCP Global Summit | March 14–15, 2019

