

HOLLYWOOD INNOVATION & TRANSFORMATION SUMMIT

Presented by



HITS N

Analyze Your Move to the Cloud, It's Still an On-Prem Play



Sean Tajkowski – MEDCA / Tajkowski Group Technical Director / Technical Planning



Jason Bautista - Commscope Solutions Architect, Enterprise Strategy and Technology



Tony Grayson – Compass/Quantum Data Centers General Manager



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Quantum

May 2022



Introduction Ltal ATT.



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ORACLE





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White Space as a Service





Service Benefits





Installation Benefits

Turnkey

- Logistics
- Land
- Permitting



Unique Pier Design

- No Minimal Geo-tech
- Any seismic condition and surface
- Minimal environmental impact
- 4-hour install







Datacenter Benefits

Remote Management

• Full monitoring and control

Reliable and Secure

- Tier Ready, TIA Ready, UL Listed
- Can withstand 200mph winds
- Ballistic rated
- Diesel backup

Speed to Market

- Industry leading manufacturing timeline
- 100kW can ship within one month from contract

Scalable Form Factor

- Twelve positions
- 100kW @ 2N; 200kW @ N
- Scalable in 100kW increments

High Quality

Standardized, sustainable, repeatable design







Managed Offering Benefits

Central NOC & onsite services

• Out of band management backup

• Monitoring and custom alerts

• SLAs set to customer's needs







The Quantum 'Edge'

Segment	Distributor	Segment Competition	Quantum
Capital approach	CAPEX	OPEX	OPEX
Remote management			\checkmark
Sustainable design			
Global	\checkmark		
Delivered to customer			\checkmark
Site selection			
Permitting			
Manufactured in a month or less			\checkmark



Product Roadmap

- Remote breaker control 2022
- Rear-door heat exchangers for high power racks 2022
- Different sizes and number of positions 2023
- Fuel cell for backup 2023
- Microgrid for primary 2023





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Modern networks are complex.



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We can help.

With simplified networks that speed time-to-revenue and lower TCO

Broadest, global solutions sets for:

- Wired and wireless connectivity
- Service providers, data centers and end customers
- Partner network

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COMMSCOPE

Connecting the future

\$8.5B revenue (2021)

30,000 employees

15,000 patents

\$800M R&D investment

Global R&D, manufacturing & distribution

10,000 global partners

Committed to environmental & social sustainability







Servers With Accelerators Deliver Deep Learning





% of Yearly Shipments







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Next Steps for Fiber Infrastructure

- 400G Cabling Supports 8 lanes 16f MPOs, VSFF
- 1.6T and Beyond Will Use
 8 or 16 lanes of 100G/200G

Waves of Speed Migrations

Connectivity Needs to Support



SERDES Speeds Will Drive Future Connectivity Needs

QSFP-DD SR8 MPO16 (f)

192 Server Connections Per 1U Switch (3:1)

QSFP-DD SR8 MPO16 (f) Male Shown



8*50G = 400G 16Fiber SR8 MMF Server Connections



It's about Capacity Planning... and reducing latency Network response defines the user experience

Edge-Cloud // Central Cloud



Many M2M connections will originate at the Edge

Source: AT&T COMMSCOPE° A Telco would view the edge from their current network perspective



Edge DC cabling infrastructure

Pre-terminated high speed cloud infrastructure





Where does Fiber Impact the Campus?



How does CommScope Fiber Impact the Campus?



Entrance Facility



• Compatible with both ribbon and stranded cable

- >10,000 fibers in single cabinet using ribbon cable makes landing 1728f and 3456f cables possible
- Intuitive cable routing and slack management
- Key differences between the two styles

Style	FEC Floor Mount	FEC Wall Mount
Mounting Place	Floor/Wall	Wall
Cable Entry	Top OR Bottom	Top/Bottom/Side
Splice Style	Wheel	Tray
Size	24"W x 12"D x 84"T (1/2 floor tile)	36"W x 13"D x 62"T
Max Fiber Density	11,520	10,368



FEC Wall Mount





CommScope Optical Distribution Frames (ODF) Lineup





Designing to meet the challenge

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