

#### A PROVEN PARTNER TO THE WORLD'S TOP NETWORKS

COMMSCOPE IS BACKED BY THE EXPERTISE, INNOVATION AND RESOURCES THAT ENABLE US TO DELIVER POWERFUL RESULTS.

30,000

**TALENTED INNOVATORS**  15,000+

**PATENTS** 

\$800M

**EACH YEAR** IN R&D

#### WE'RE PROUD TO PARTICIPATE IN THESE PRESTIGIOUS ORGANIZATIONS

O-RAN Alliance

WFA WBA

WInnForum

IEEE at many levels

On Go Alliance

NGMN

ISO/IEC

TIA

CableLabs

SCTE

IEEE ETSI

**Broadband Forum** 

ITU-T

CENELEC

Linux Foundation Networking

Connectivity Standards Alliance

Bluetooth

MoCA

HDMI

RDK

PRPL



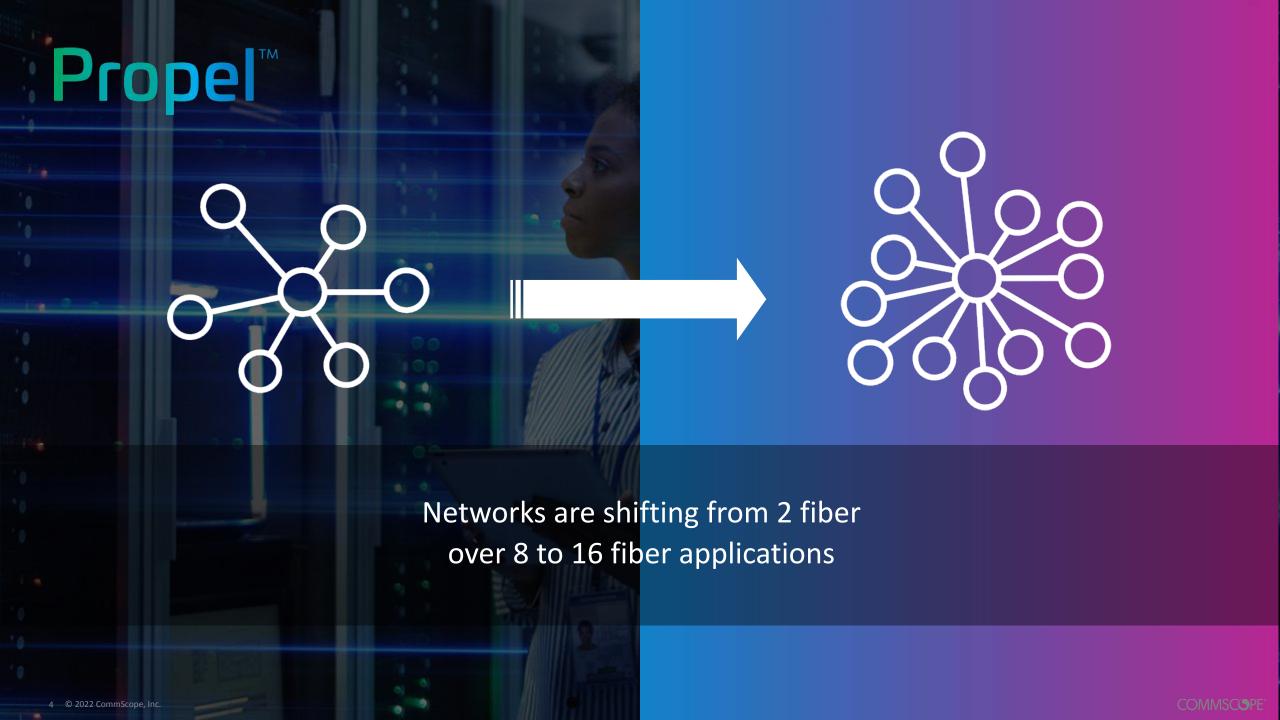
Agenda

Datacenter speed trends

Flattening the network

Connectivity types

Prepare for the future



# **Propel**<sup>™</sup>









Hyperscales

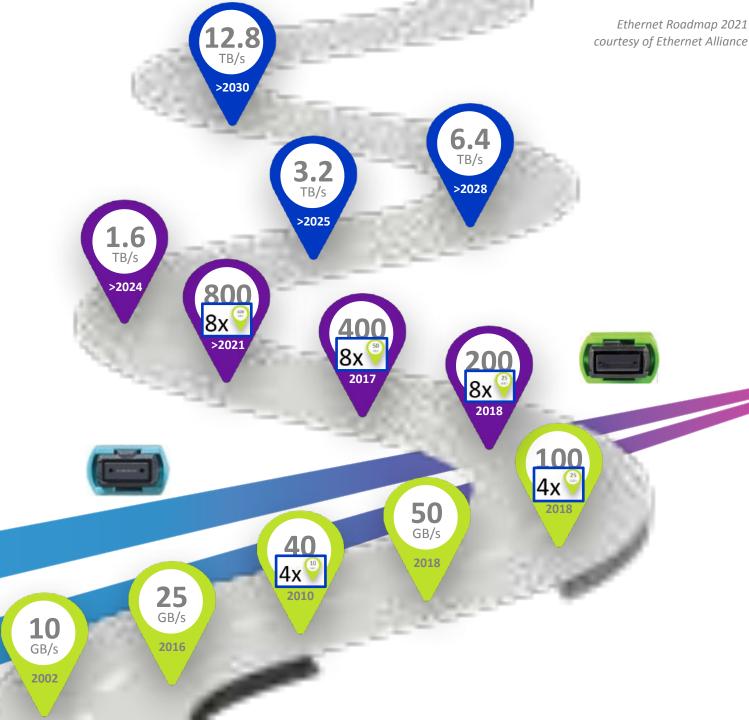
Cloud

MTDC

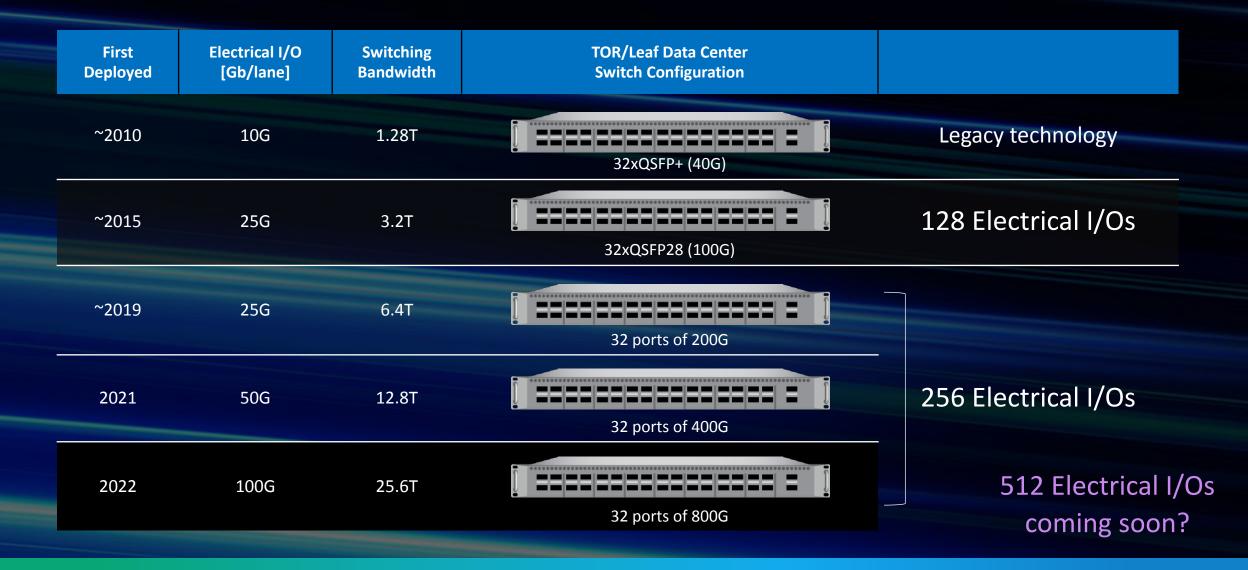
Enterprise

# **Propel**<sup>m</sup>

# Capacity Crunch Drives Network Speed Investment







### Rapid succession of technology

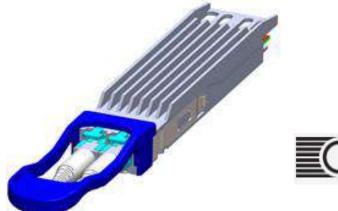
NVIDIA announced the SPECTRUM-4 a 2U switch with 128 ports of 400G 51.2T = 1024 I/Os expected power savings = 40%



# QSFP-DD and OSFP Modules

- 8 electrical I/Os (8 transmit / 8 receive)
- The only way to use ASIC capacity
- 50G and 100G electrical I/Os up to 800G (today)
- New options for
  - Up to 8-way breakouts, 4-way popular for brownfield
  - New optical connectors to enable these breakouts
  - Multimode fiber and singlemode fiber options







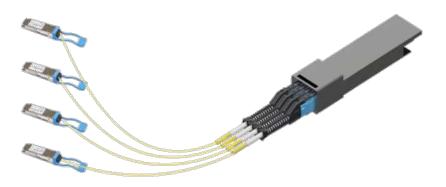
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### 400G MDIs

Media dependent interface (MDI)

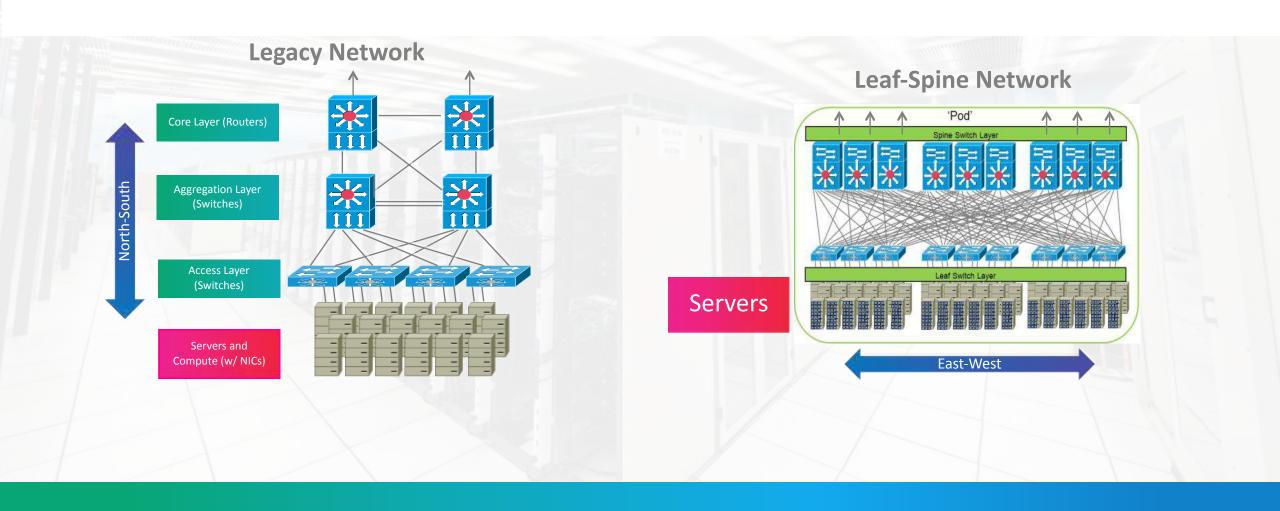
400G capacity QSFP-DD connectors

400G DR4
with 4
duplex
100G-DR
fibers



New SN/MDC connector avoids MPO-MTP Splitter cable

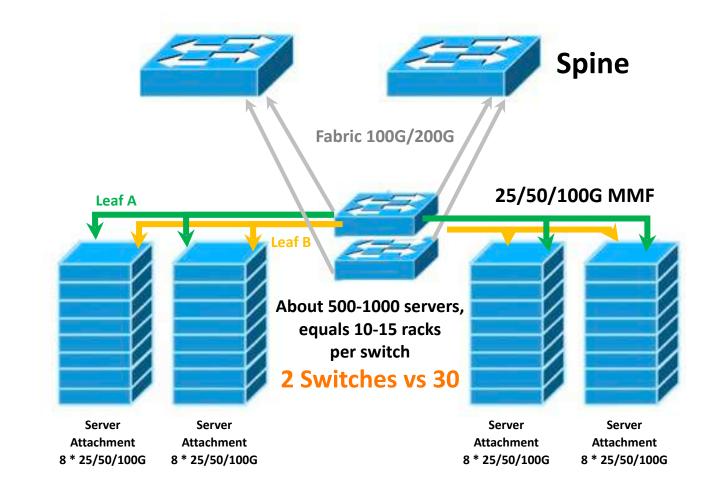
Reach	Name Scheme A	Scheme B	Scheme C	Connector		
SR (50-70m)	QDD-400G-SR4.2 QDD-400G-SR8 QDD-400G-SR4	400G-BiDi 400G-SR8 400G-SR4		MPO12 MPO16/MPO24 MPO12	MPO12	
DR (500m)	QDD-2x200G-DR4 QDD-400G-DR4	400G-DR8 400G-DR4		MPO16/MPO24 MPO12	MPO24	
FR (2km)	QDD-4x100G-FR1 QDD-2x200G-FR4 QDD-400G-FR8 QDD-400G-FR4	400G-4xFR1 400G-2xFR4 400G-FR8 400G-FR4	400G-DR4+	MPO12/4xSN 2xCS/(2xSN) LC Duplex LC Duplex	MPO16	
LR (6km)	QDD-400G-LR4-6	400G-LR4-6		LC Duplex	4 x SN	-
LR (10km)	QDD-4x100G-LR1 QDD-2x200G-LR4 QDD-400G-LR8 QDD-400G-LR4-10	400G-4xLR1 400G-2xLR4 400G-LR8 400G-LR4-10	400G-DR4++	MPO12/4xSN 2xCS/(2xSN) LC Duplex LC Duplex	2 x CS	
ER (30-40km)	QDD-400G-ER8 QDD-400ZR	400G-ER8 400ZR		LC Duplex LC Duplex		
ZR (80-120km)	QDD-400ZR QDD-400G-ZR	400ZR 400G-ZR		LC Duplex LC Duplex	LC Duplex	in in



DC network topologies continue to evolve



### Efficient network architectures



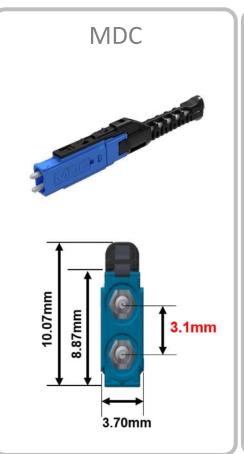
Path A, N\*16 fibers 25/50/100G MMF Path B, N\*16 Fibers 25/50/100G MMF

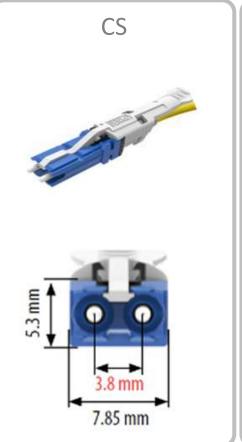
N\*100G SR4.2/ DR

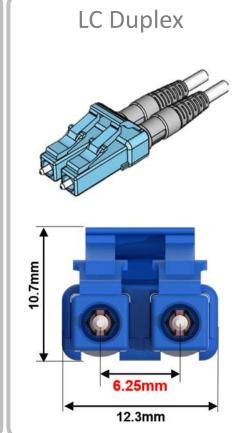
### Optical connectors comparison

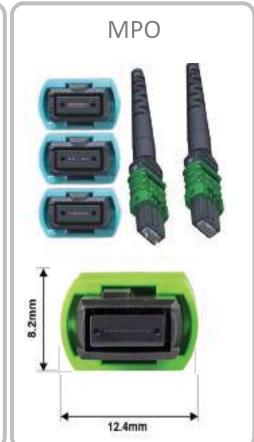
# Propel











# Propel

Enables 2, 8 & 16-fiber applications without wasting fibers

Simplifies design and installation

Backward compatible to legacy and migration aligned to 400G/800G Ethernet and beyond

16 fiber applications provide 8:1 vs 4:1 breakouts: Enabling the lowest cost and energy per bit with improved latency





# Environmental Progress With Promise



CommScope Manufacturing Facilities

> ISO 14001:2015 Environmental

Management Systems



CommScope Manufacturing Facilities

ISO 45001:2018

Health & Safety

**Management Systems** 



of nonhazardous waste diverted from landfills globally in 2021.

Achieved by reducing waste generation via product design and manufacturing processes by converting waste to energy and reusing and recycling waste.







Low Risk Sustainability Rating

#### Conducted 268 sustainability assessments and audits in our supply chain.



9.1% Reduction Total Global Water Consumption



#### 7.8% Decrease

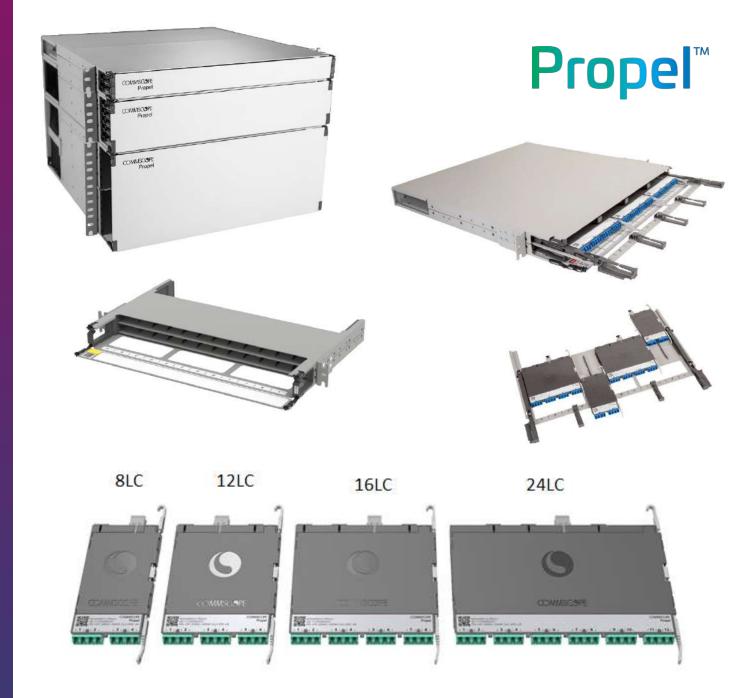
Scope 1 and 2 Location-Based Emissions Reduction of 183,086 metric tons

#### 8.9% Decrease

Scope 1 and 2 Market-Based Emissions Reduction of 17,003 metric tons

### Panels

- Adapt and grow as needs change
- Modular and interchangeable
- Blade-based layout
- Minimum size/weight
- **Ergonomic & easy access**
- One person install
- Module interchangeability
- Support 8-12-16 and 24-fiber connectivity and up to 288 connected fibers per RU
- **Method B Enhanced polarity**



### Flexibility

MPO8, MPO12, MPO16 to LC conversion

MPO24 to LC conversion MM

MPO8, MPO12, MPO16 to SN conversion SM

LC adapter modules

SN adapter modules

MPO8, 12, 16, 24 adapter modules

LC and MPO splice modules

MPO16 to 2x MPO8 conversion modules

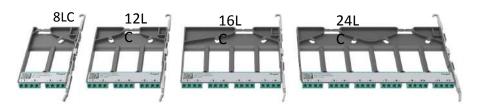
MPO8 to MPO8 mesh modules

QSFP breakout modules

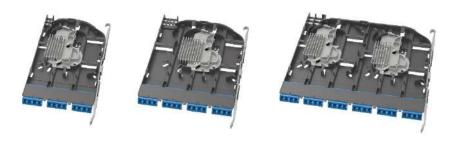






















## Leading with 16-fibers

#### Most efficient multipair building block for trunk applications

End-to-end APC multimode or singlemode provides application insurance benefits compared to UPC

> Enable cost effective backbone switch/breakouts

Supports migrations whether duplex or multipair 4, 8, or 16 fibers; multimode & singlemode

