

ENABLING AI Infrastructure

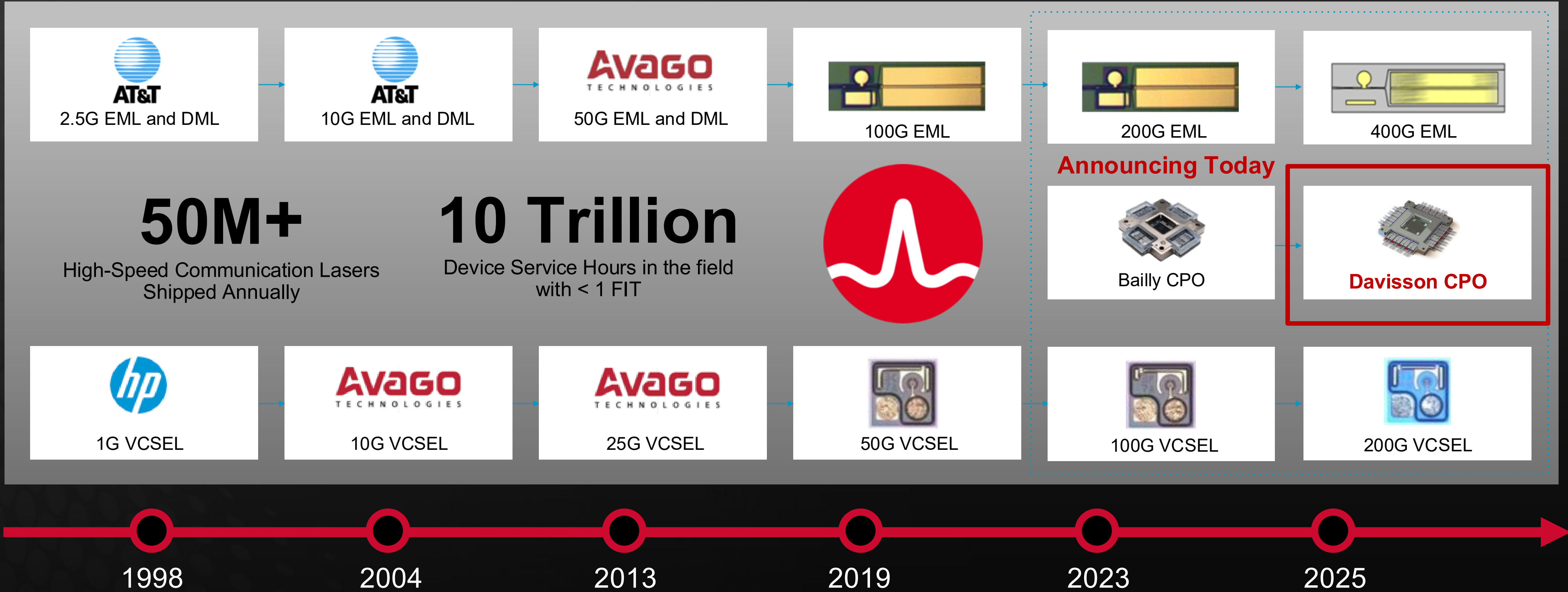
TH6-Davisson Briefing

Broadcom Optical Systems Division (OSD)

Oct 2025

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Broadcom Optics Leadership



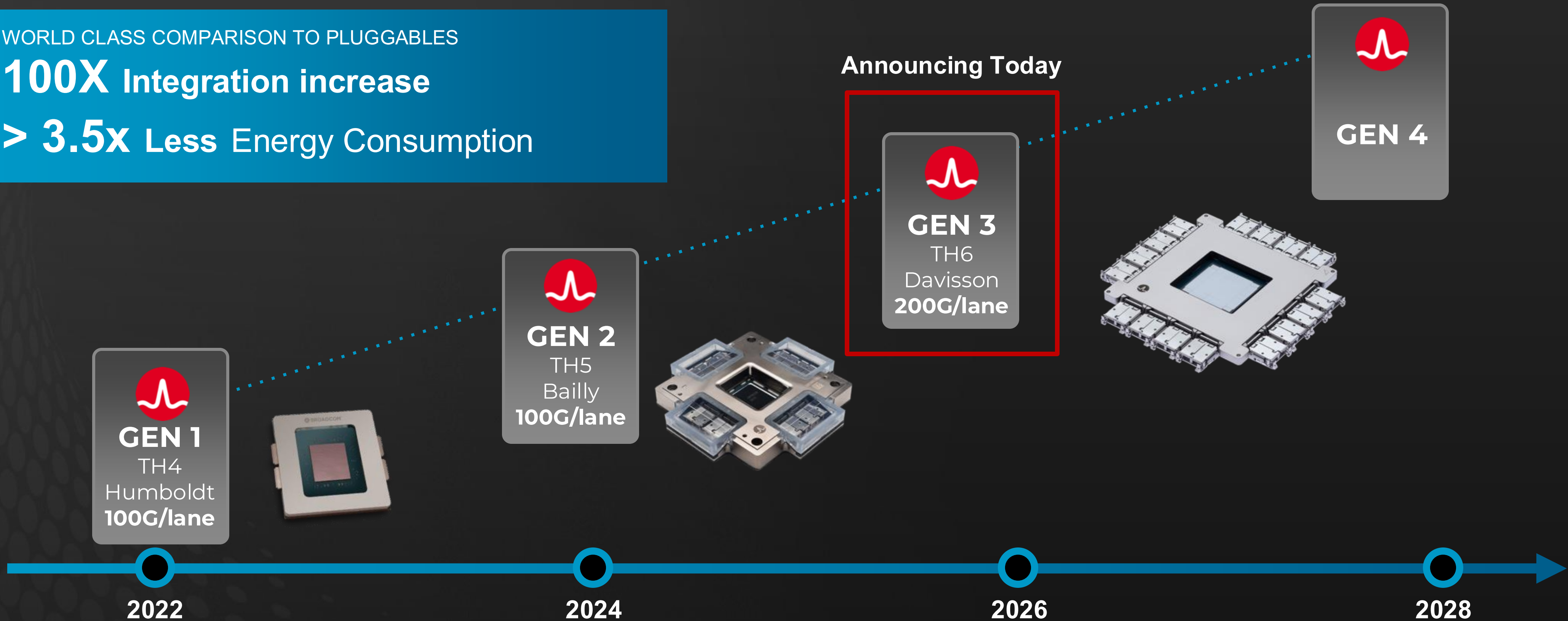
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4 Generations of Broadcom CPO

WORLD CLASS COMPARISON TO PLUGGABLES

100X Integration increase

> 3.5x Less Energy Consumption



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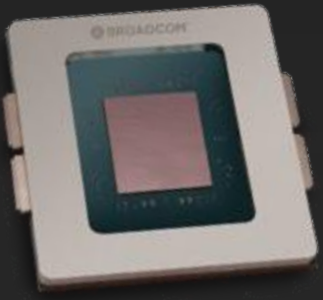
Broadcom's CPO Platform

Built for Reliability and Link Performance
> 1M device hours with 0 link flaps observed

Open and Scaleable
Mature Partner Ecosystem

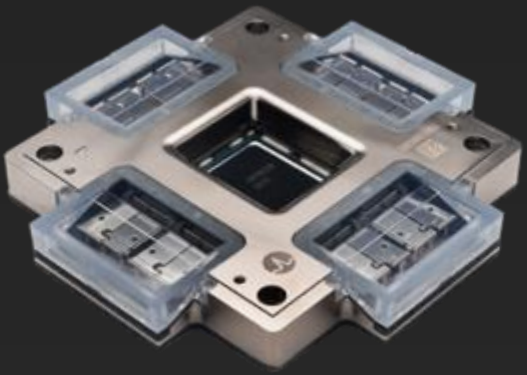
Multi-Generational
Gen 3 CPO: TH6-Davisson

Gen 1 CPO



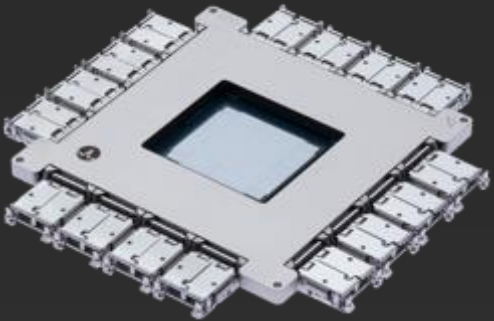
TH4-Humboldt

Gen 2 CPO



TH5-Bailly

Gen 3 CPO



TH6-Davisson

Gen 4 CPO



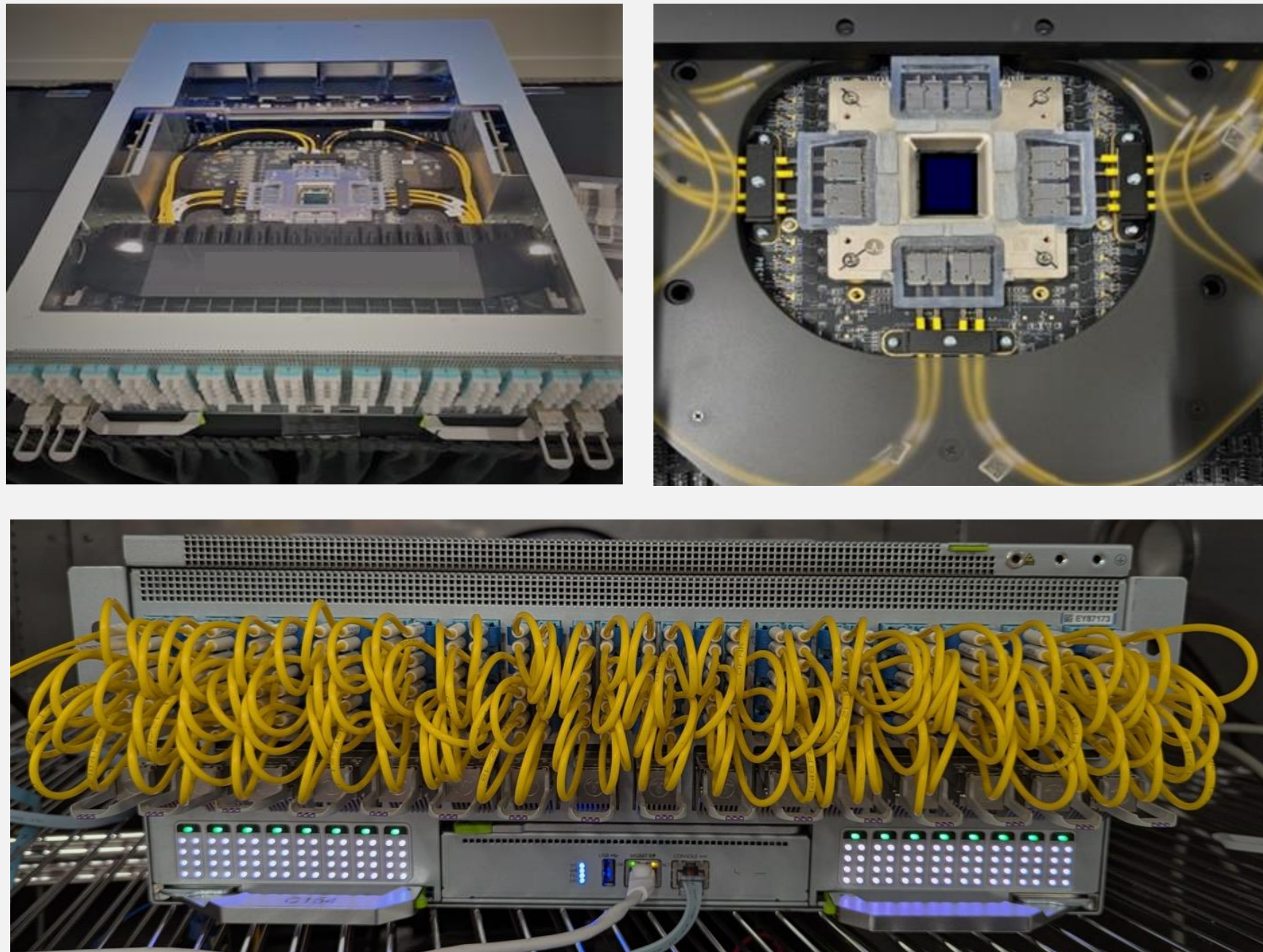
400G per lane CPO

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TH5-Bailly in Operation



Broadcom TH5-Bailly CPO



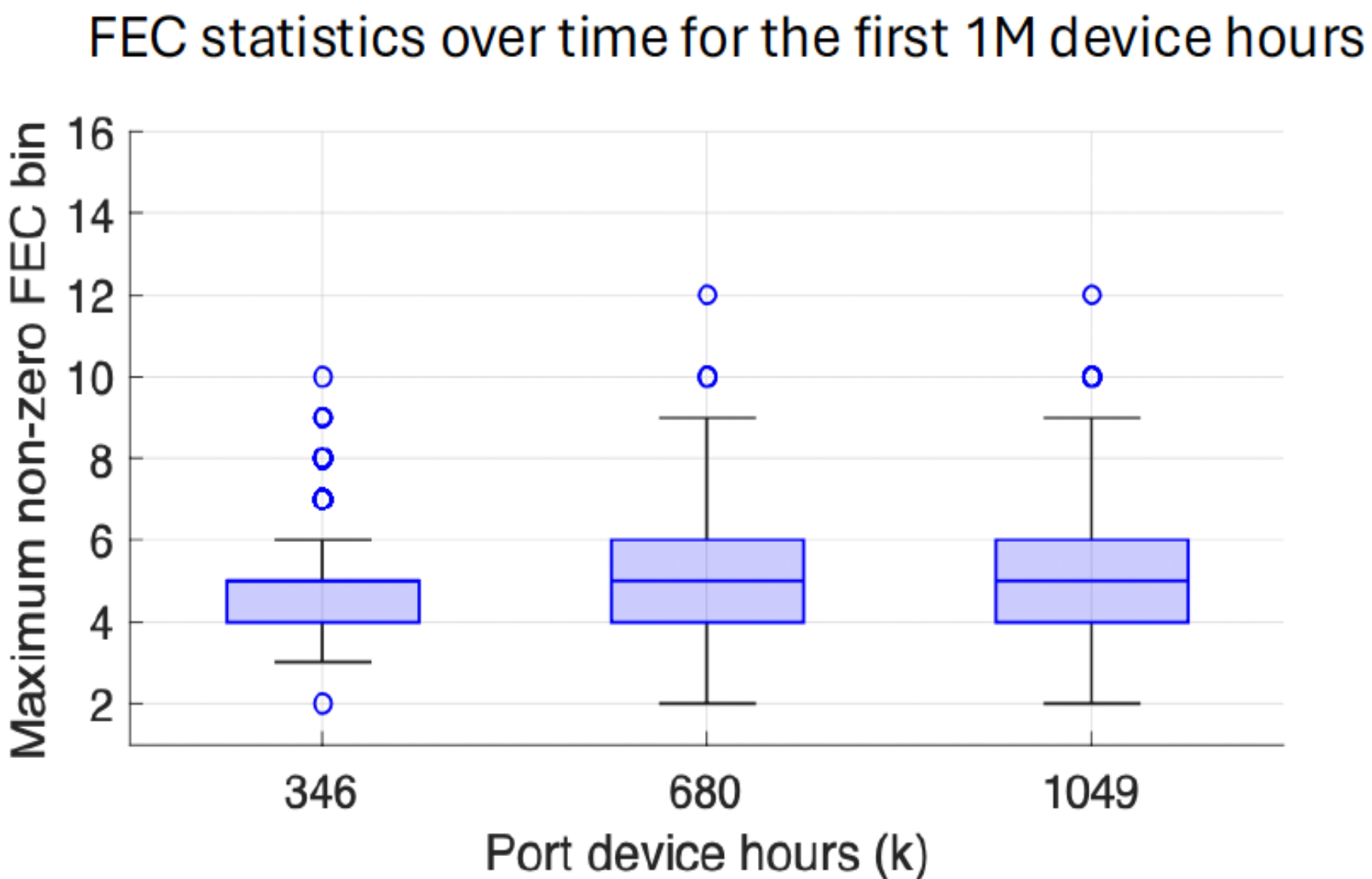
Source: Siamak Amiralizadeh, D. Alduino, W. Zhang, V. Lowalekar, G. Wang, N. Ge, R. Zhu, N. Hoang, J. Stever, J. Xu, J. Pruitt, A. John, S. Agrawal, F. Mercado, O. Moeller, D. Young. **“CPO Technology Evaluation for Hyperscale Data Center Fabric Switches.” 2025.**

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TH5-Bailly CPO Performance Results: FEC Statistics

1 M

No Link Flaps observed in first 1 M CPO device hours



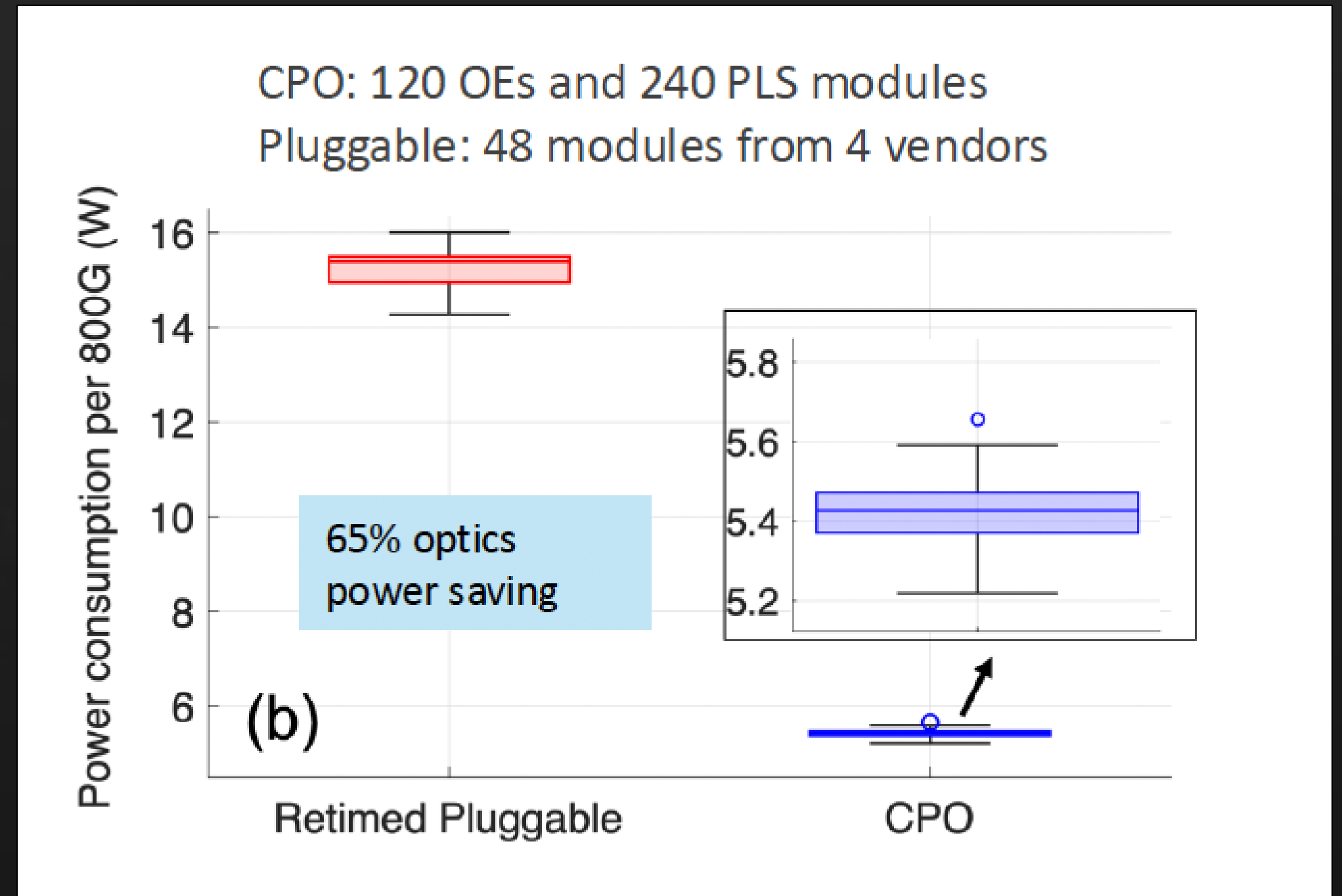
Source: Siamak Amiralizadeh, D. Alduino, W. Zhang, V. Lowalekar, G. Wang, N. Ge, R. Zhu, N. Hoang, J. Stever, J. Xu, J. Pruitt, A. John, S. Agrawal, F. Mercado, O. Moeller, D. Young. **“CPO Technology Evaluation for Hyperscale Data Center Fabric Switches.” 2025.**

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TH5-Bailly CPO Performance Results: Power

65 % CPO power savings vs. retimed optics

35 % CPO power savings vs. LPO for 100G/lane



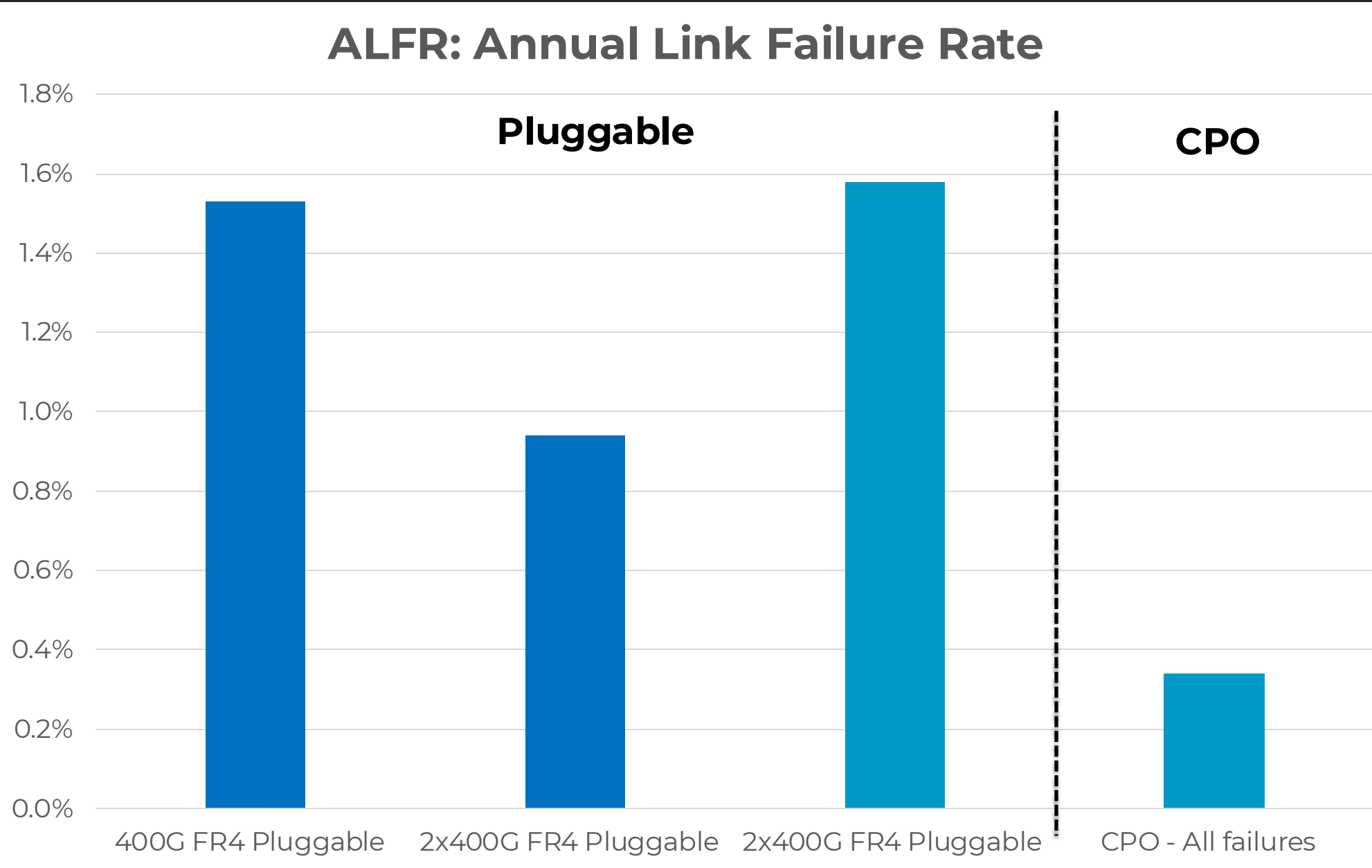
Source: Siamak Amiralizadeh, D. Alduino, W. Zhang, V. Lowalekar, G. Wang, N. Ge, R. Zhu, N. Hoang, J. Stever, J. Xu, J. Pruitt, A. John, S. Agrawal, F. Mercado, O. Moeller, D. Young. **“CPO Technology Evaluation for Hyperscale Data Center Fabric Switches.” 2025.**

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TH5-Bailly CPO Performance Results: ALFR

5 X CPO serviceable failures improvement over pluggables

Data Center Lab Stress



Source: Siamak Amiralizadeh, D. Alduino, W. Zhang, V. Lowalekar, G. Wang, N. Ge, R. Zhu, N. Hoang, J. Stever, J. Xu, J. Pruitt, A. John, S. Agrawal, F. Mercado, O. Moeller, D. Young. **“CPO Technology Evaluation for Hyperscale Data Center Fabric Switches.” 2025.**

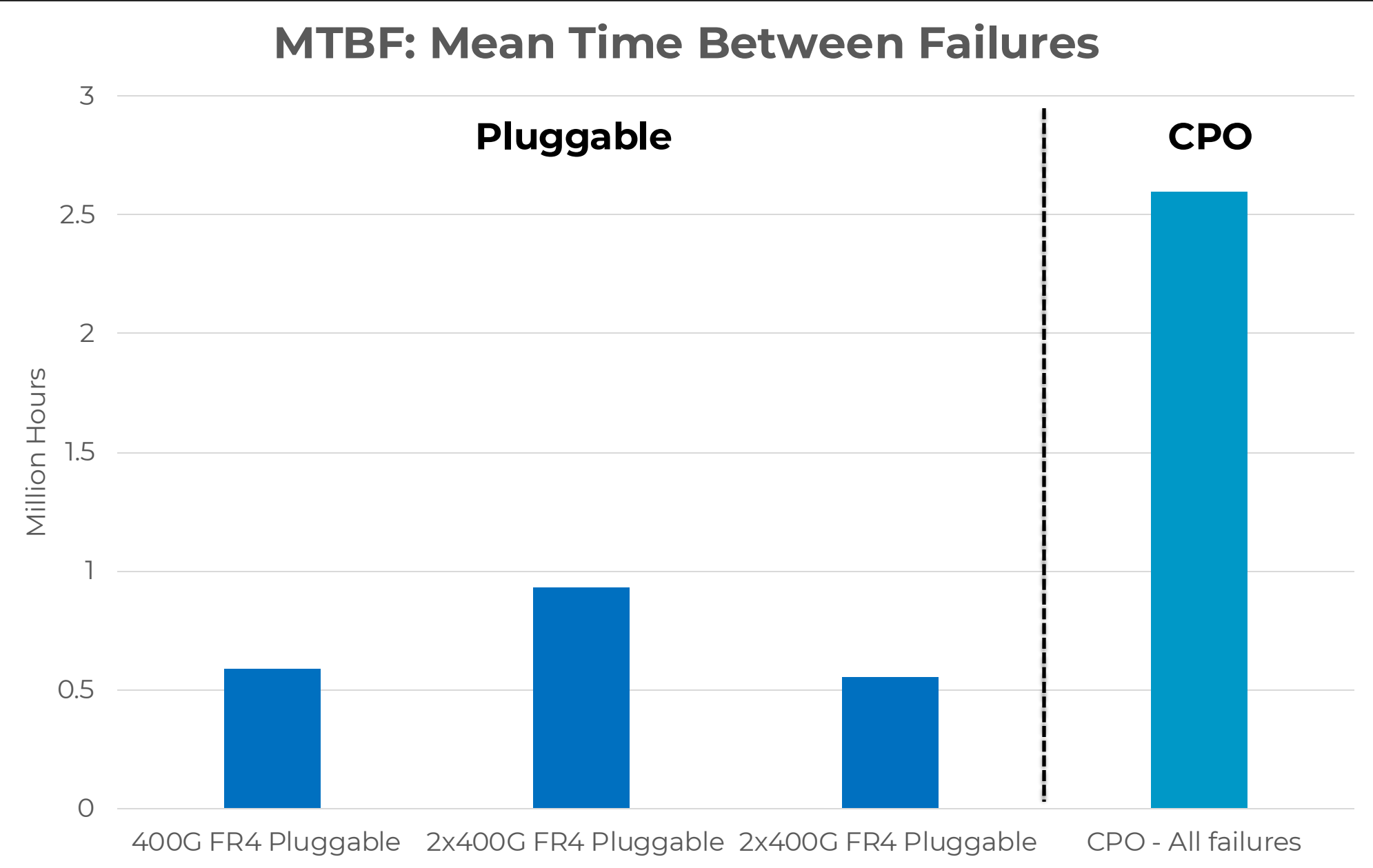
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TH5-Bailly CPO Performance Results: MTBF

90%

Training efficiency improvement for 24K GPU AI Cluster

Data Center Lab Stress



Source: Siamak Amiralizadeh, D. Alduino, W. Zhang, V. Lowalekar, G. Wang, N. Ge, R. Zhu, N. Hoang, J. Stever, J. Xu, J. Pruitt, A. John, S. Agrawal, F. Mercado, O. Moeller, D. Young. **“CPO Technology Evaluation for Hyperscale Data Center Fabric Switches.” 2025.**

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Introducing Tomahawk 6-Davisson

Industry's First 100T CPO Ethernet Switch

Mature CPO Platform and Ecosystem

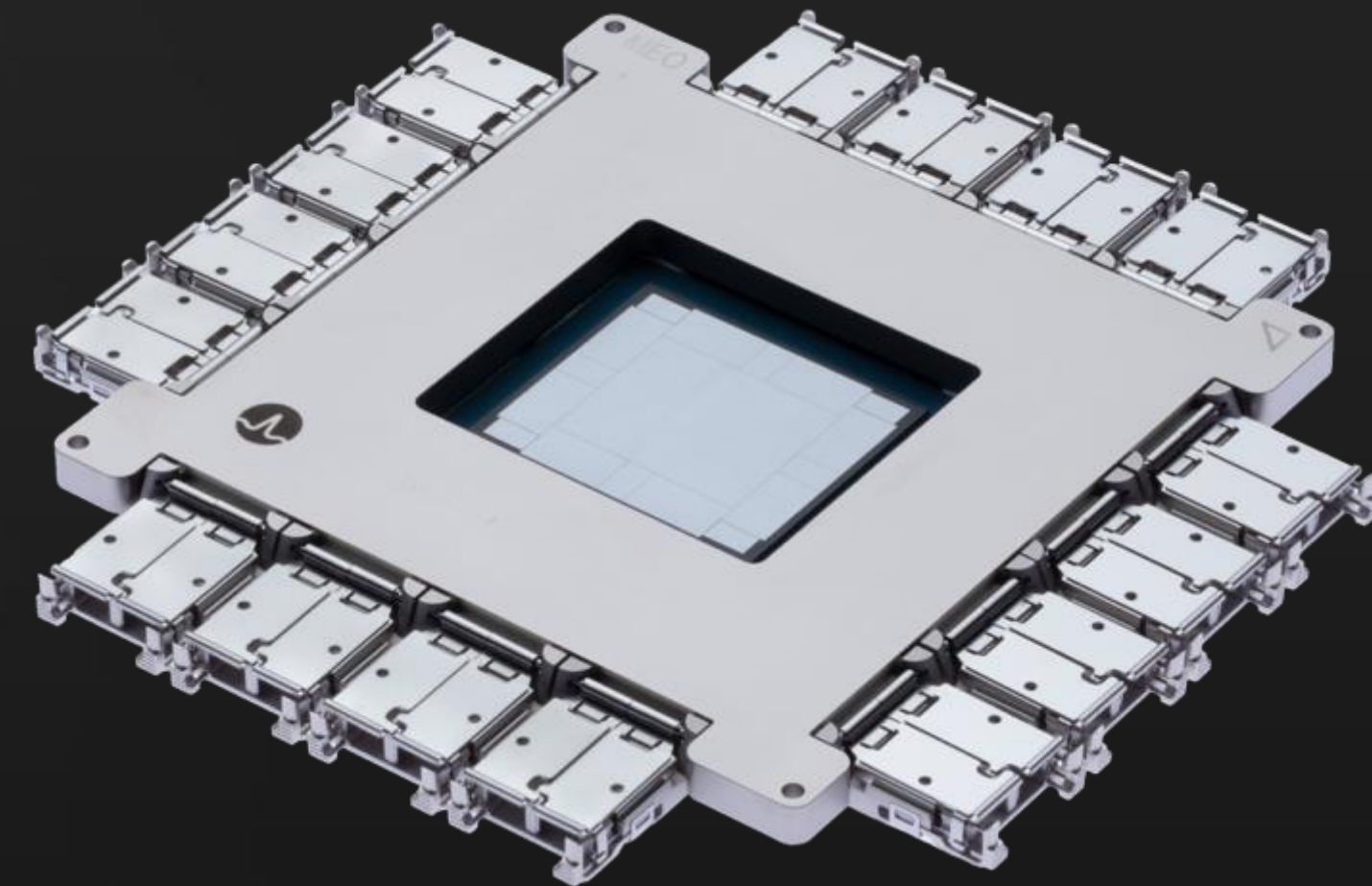
3rd Generation CPO

WORLD CLASS COMPARISON TO PLUGGABLES

Fewer Link Flaps = Better Traffic

WORLD CLASS COMPARISON TO PLUGGABLES

> 70% Power Reduction



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Thank you

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