

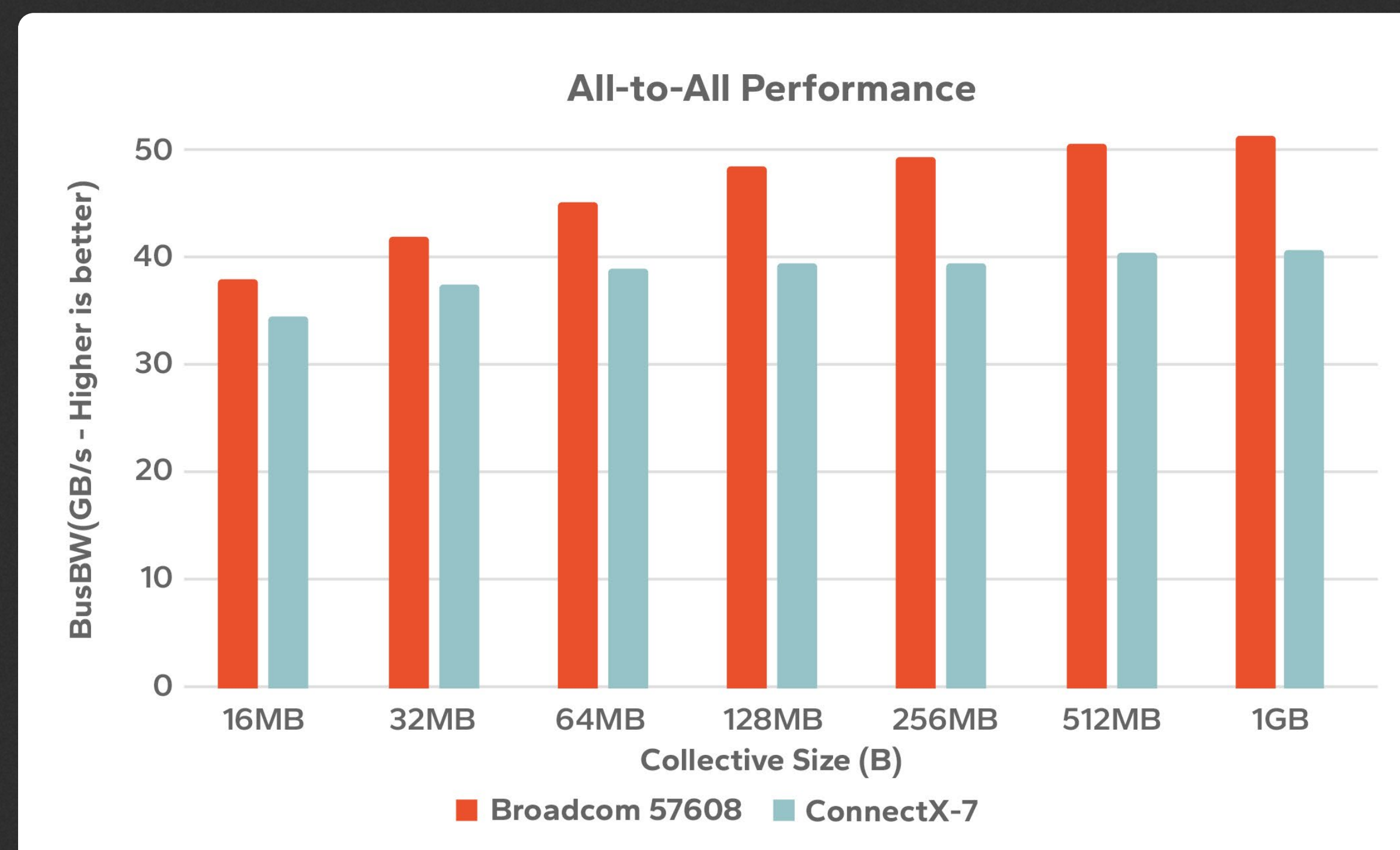
Optimizing AI Workloads with Dell Ethernet Infrastructure

Dell networking solutions based on Broadcom BCM57608 and Dell PowerSwitch Z9864F-ON, provide enterprise organizations a compelling foundation for scaling AI workloads without compromising performance or flexibility.

Optimized for Emerging MoE Models

Mixture of Experts models represent the future of AI efficiency, offering dramatically improved performance while reducing computational costs. These models dynamically activate only relevant expert networks, making them ideal for multi-task applications like customer service, content generation, and complex decision-making systems.

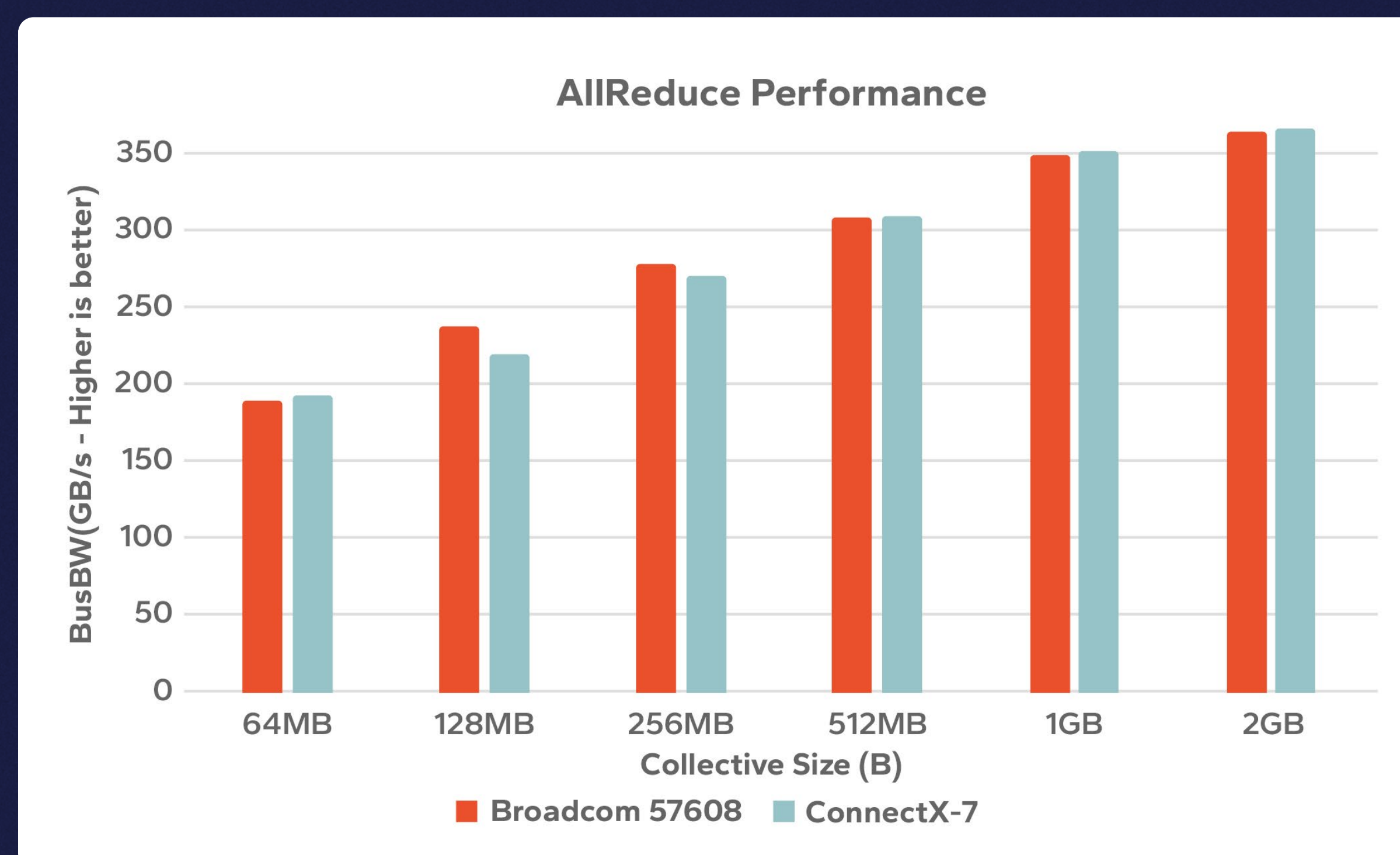
- ▶ MoE Models with 8 to 128 Experts
- ▶ All-to-All Performance @ 128MB - 49GB/sec



Optimized for Traditional Models

Traditional dense models like GPT, BERT, and LLaMA remain the backbone of enterprise AI deployments. These models require consistent, high-bandwidth communication. Perfect for established AI workflows in production environments.

- ▶ Traditional Models with 32b - 403b Parameters
- ▶ AllReduce Performance @ 128MB - 237GB/sec



**Future-proof investment
for next-generation AI
workloads**



**Reduce latency
and maximize GPU
utilization**



**Lower operational costs
through improved network
efficiency**

TCP Efficiency

Gb/s per core

98 Gb/s

NCCL All Reduce

busBW, 8 nodes,
64 H200 GPUs, 128MB

237 GB/s

NCCL All-to-All

busBW, 8 nodes,
64 H200 GPUs, 128MB

49 GB/s

Total Cost of Ownership Benefits

Broadcom's high-performance networking delivers measurable infrastructure ROI through reduced training times, improved resource utilization, and future-ready architecture that supports both current production workloads and emerging AI models.

- ▶ Reduce infrastructure costs by consolidating workloads
- ▶ Minimize downtime with enterprise-grade reliability
- ▶ Future-proof investment supporting multiple AI architectures