NEW USE CASES FURTHER ACCELERATE DATA GROWTH

- 3x Connected devices than world’s population
- 200 PB/Day Smart Cities per 1M people
- 12% Of all Mobile traffic is 5G
- 3x Total Traffic Growth
New Infrastructure

**Edge Data Center**

- Mission Critical Applications
- Low Latency is mandatory
- Analytics is done at the Edge
- Concentration of users increases the load and sets QoS problems
Evolving Deployments

*Hybrid Clouds*

Enjoy the benefits of both Clouds

Co-Location and Xchange points

Campus Core and Aggregation Networks
New Topologies and Architectures

Networked Storage

Hyper Converged

Disaggregated Storage

Composable Infrastructure
Introducing FALCON

More than 20 years of Switching got us here
Prestera CX Family of Devices

High raw bandwidth without compromise on features

Falcon
2T
80x 25G

Falcon
3.2T
128x 25G

Falcon
4T
80x 50G

Falcon
6.4T
128x 50G

Falcon
8T
160x 50G

Falcon
12.8T
256x 50G

The *Perfect* fit for multiple markets

*Mature* and field *Proven*

*Common* Software across
Many Markets

One FALCON Family

01 PUBLIC DATA CENTER
DCTCP, Analytics, High Radix

02 PRIVATE DATA CENTER
Scalability, Security, Virtualization

03 EDGE DATA CENTER
Virtualization, Programmability, Power

04 ENTERPRISE
Flow Management, ACL’s

05 CARRIER
MEF3.0, 5G Network Slicing, PTP

06 STORAGE
RoCEv2 Aware, NVMeoF Offload
SAFE Technology for Composable Infrastructure

• **Storage Aware Flow Engine**
  
  • Programmable engines to support **NVMe over Fabric** classification
  
  • Flexible parser capable of **RoCEv2, iWARP or NVMeoTCP**
  
  • Dynamic tracking of Queue Pair connections performed in hardware
  
  • Analytics applied including min-max, mean latency per connection
  
  • Provides generic **Flow Monitoring** services
End to End Total Solution

Marvell’s Complete complementary portfolio

Physical Connectivity

Scalable compute offerings

Effective Storage Networking

Maximum port fanout
FASTER Technology

• **Forwarding Architecture using Slices of Terabit Ethernet Routers**

  • Removing layers of network through **High Radix** switching cores
  • Ease of **Management**
  • Total network **power reduction**
  • **Lower** end to end **Latency**
  • **Congestion Aware** Load balancing
➢ Ultra-High performance demonstrated today together with IXIA AresOne platform

➢ Delivering high quality and mature product leveraging than 20 years of switching technologies

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SUMMARY

FALCON PERFORMANCE WITH NO COMPROMISE

Marvell has a full portfolio of products across Network, Compute and storage

Come see the demo at the Marvell booth!