CLOUD NETWORKS AND DATA CENTER INTERCONNECT

Market

Internal Network Traffic → Bigger and Growing Faster than → User to Cloud Traffic

2,400 kilometers per search

*Source: Google

Data Centers

Data Center Infrastructure Needs

- Compute: Stacked blades
- Storage: Racked units
- Network: Bandwidth

Hyper-scale density
Power efficient
Simple operation

Needs

Rural Builds
- Massive, warehouse scale, replicated
- Spread across 100+ acres, 1+ million sq. ft.
- Nx100G metro & long-haul DC interconnects
- New, mainly content providers

Urban Builds
- Multiple sites 10s of miles apart, premium real estate
- Nx100G metro DC interconnects
- Central office (CO) / Regional head end & DCs
- Content providers, telcos, cablecos

Solution

Several 100s of optical functions

Photonic Integrated Circuit
- Ultra-reliable fingernail-sized chip technology that’s field proven with more than a billion hours of operation

Infinera Cloud Xpress 2

- 27.6 Tb/s line capacity on a single fiber (23 RU)
- Infinite Capacity Engine
- Low Power
- Built-In Security
- Easy as 1, 2, 3: Rack, stack, provision in a few minutes

Break free with hyper scalability, simplicity, efficiency

www.infinera.com/go/cloud

*Source: McKinsey 2013 Report on Disruptive Technologies
*Source: Facebook
*Source: Synergy Research Group

3x more expensive to own server vs. renting it in the cloud for an enterprise*

*Source: Infinera 2013 Report on Disruptive Technologies

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930x internal network traffic distributed/compute model

A single web request (1KB HTTP)

Cloud Infrastructure Services Market

2009 2013 2018

MIPS GB Tb/s

Infinera Cloud Xpress 2

1.2 Tb/s in 1 RU

Infinera Xpress Data Center

Infinera Cloud Xpress 2

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930x internal network traffic distributed/compute model

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*Source: Synergy Research Group