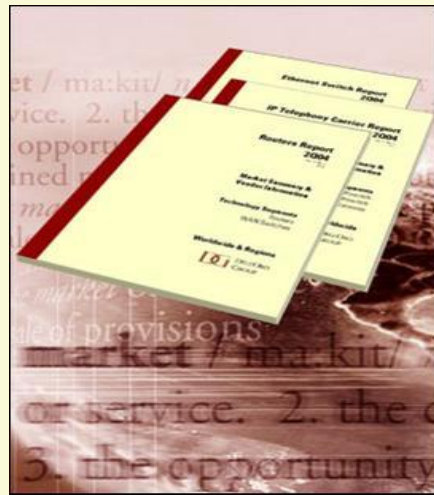


# 100 Gbps in the Network

**Jimmy Yu**

**Why is 100GbE per Lambda a Compelling Investment?**

**OIDA / Ethernet Alliance  
June 2014**



# Agenda

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**100 Gbps in the Network - Today**

**100 Gbps in the Network - Tomorrow**

**Why Invest in a Single Lambda 100 GbE**

# DWDM Wavelengths - Today

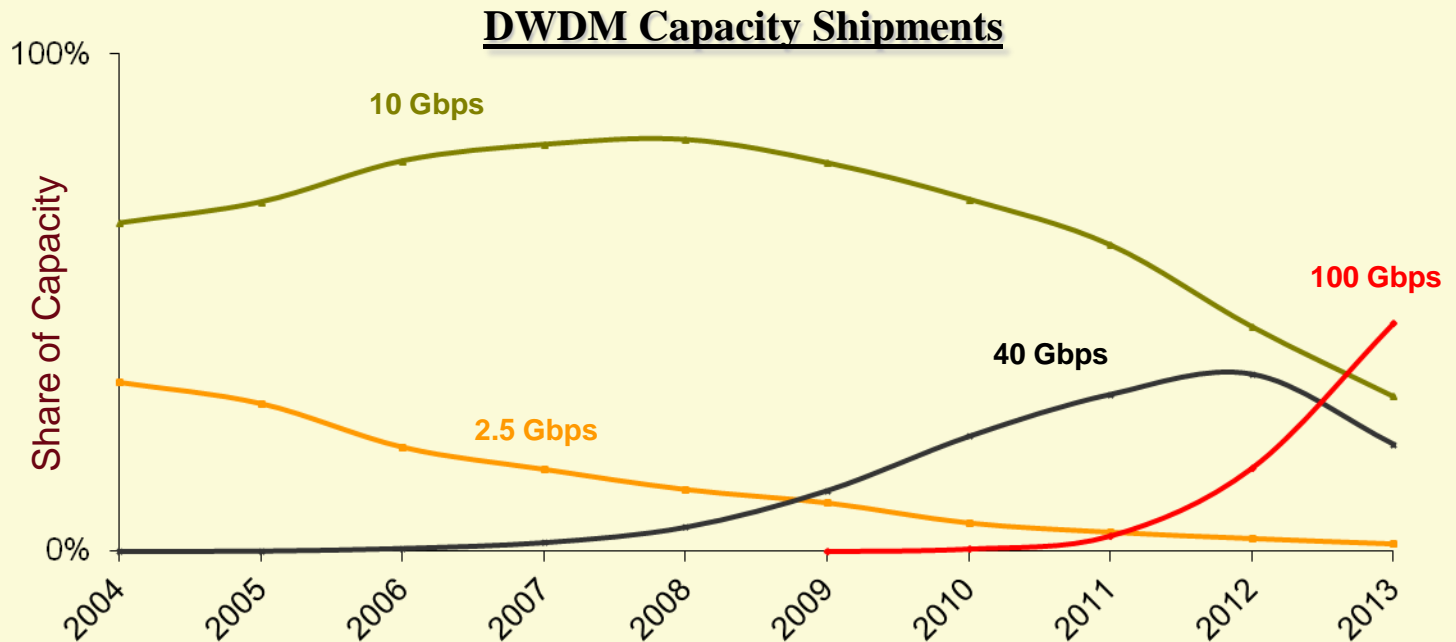
Timing of client side ports vs. line side

Move to higher order modulation

- Shift complexity to electronics

Vendor Differentiation

- Investment led to market share gains



# Client Side Interfaces - Today

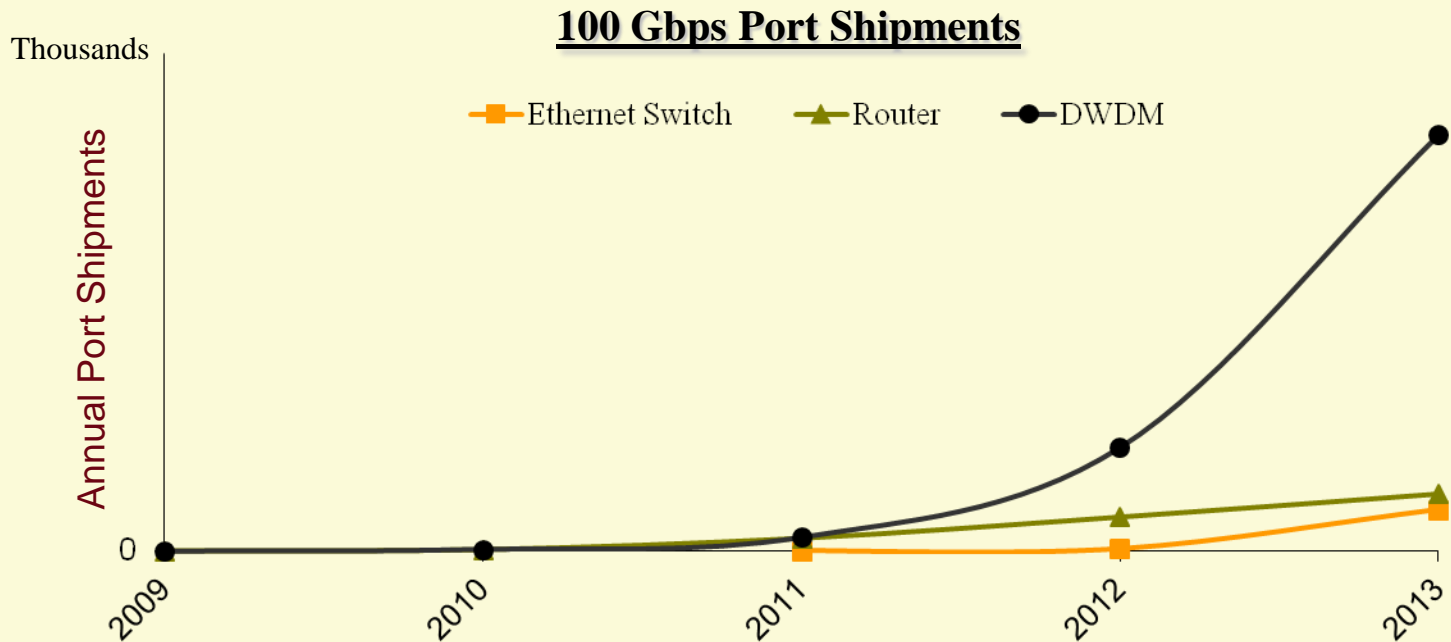
## 100 Gbps client side port use is very low

- Unfavorable price, size and power

## Chart was similar for 10 Gbps when it entered the market

- 10 Gbps client side port adoption low until XFP

## Price metric used in DWDM differs from Routers and from Ethernet Switches



# Agenda

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**100 Gbps in the Network - Today**

**100 Gbps in the Network - Tomorrow**

**Why Invest in a Single Lambda 100 GbE**

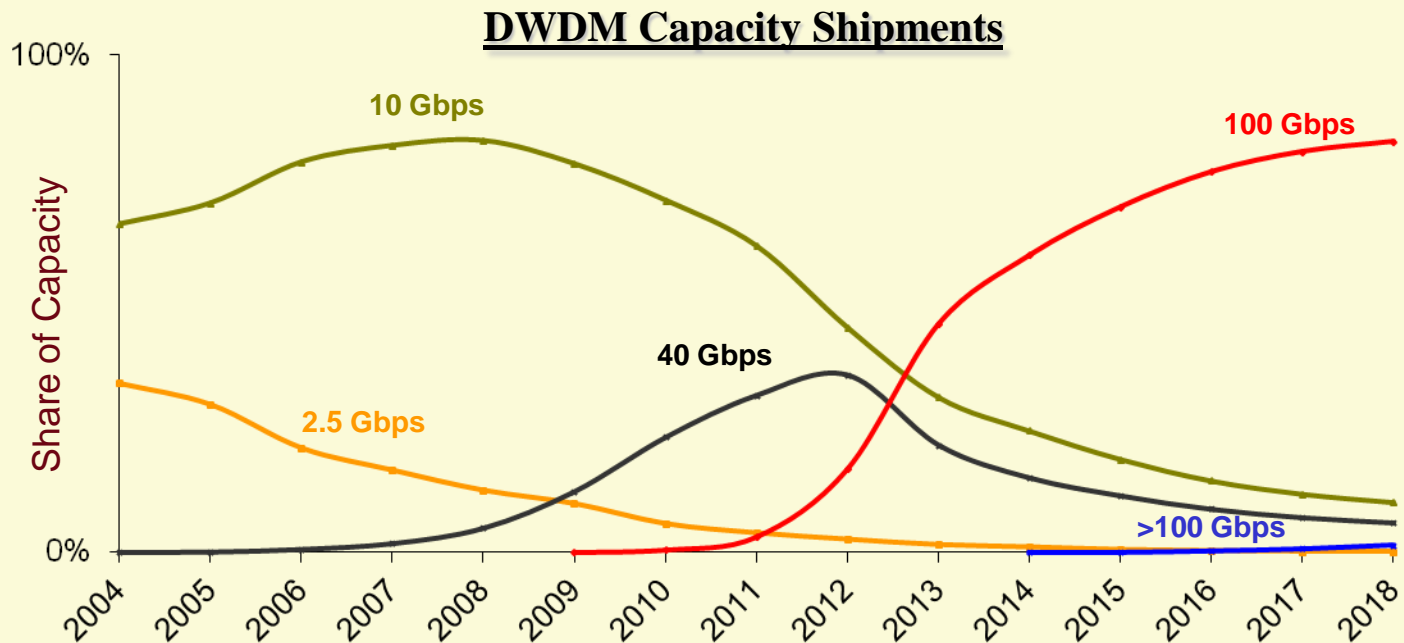
# DWDM Wavelengths - Tomorrow

100 Gbps DWDM to dominate market demand for at least the next five years

100 Gbps replacing 10 Gbps as the most deployed wavelength speed

- 100 Gbps is the new 10 Gbps

Speeds following 100 Gbps will likely leverage 100 Gbps components

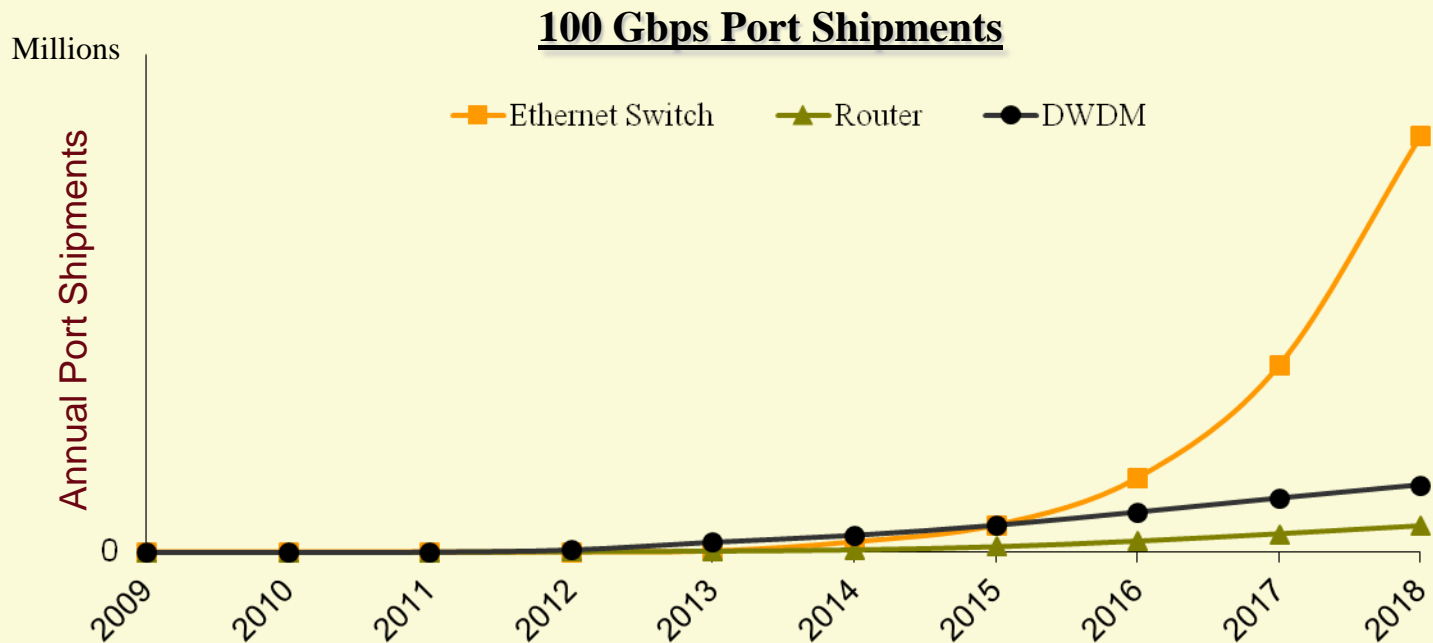


# Client Side Interfaces - Tomorrow

## Demand for 100 Gbps ports expand exponentially

- Market demand will correlate with price, size, power, and performance

This is still just the beginning for 100 GbE client side ports



# Agenda

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**100 Gbps in the Network - Today**

**100 Gbps in the Network - Tomorrow**

**Why Invest in a Single Lambda 100 GbE**



# Why Invest in a Single Lambda 100 GbE?

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## **Destination/Direction: Something to strive towards**

- For 100 Gbps and beyond

## **100 GbE will be needed for a long time to come**

- It's just the beginning

## **Opportunity to differentiate**

- Develop new capabilities and differentiate the company

## **Real options**

- Position for future decisions

## **BUT only when it makes sense...**

- Technology roadmap

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# Questions?