



# Good Things Come in Small Cubes

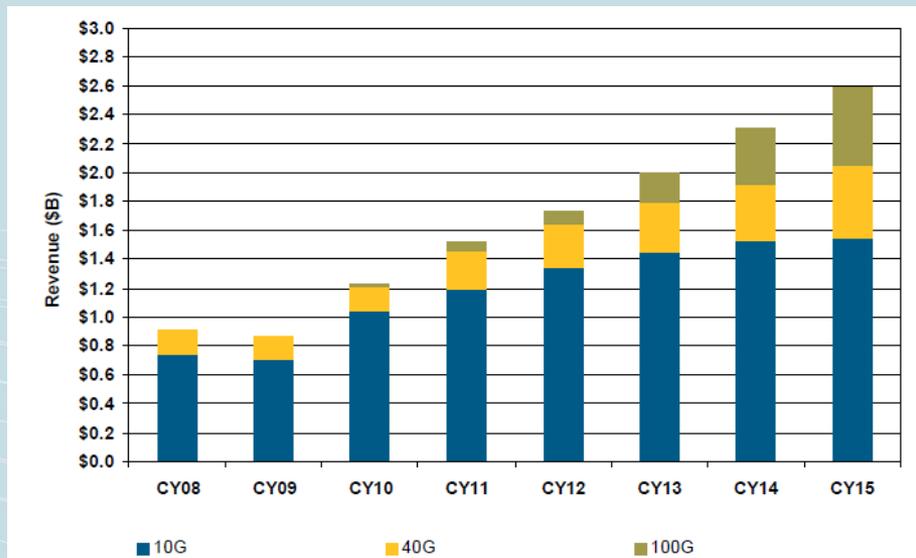
Cube Optics

**100G Metro Networks -  
It's here!**

**13th September 2013**

# Why 100G in Metro?

- Not all traffic is long haul
- Higher speeds, low latency
- Switch / Router vendors need to reduce port count
- High density with lower power consumption

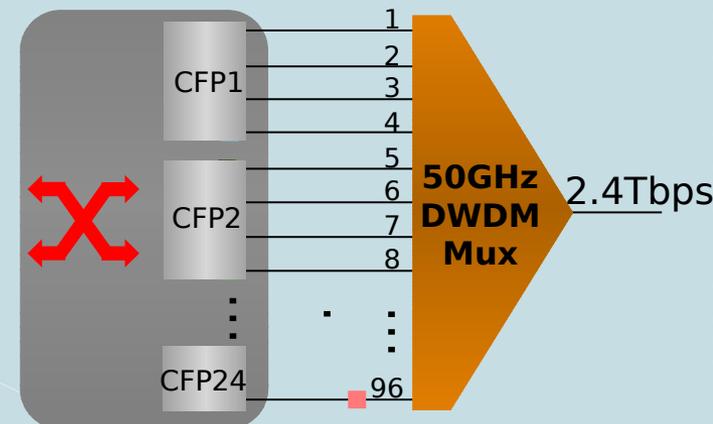
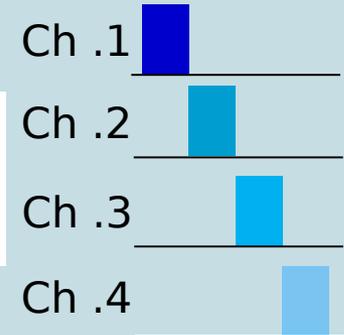


August 2011

# 100Gbps Metro Networks

## Requirements:

- 100Gbps DWDM CFP transceiver module
- Transports 4x25Gbps.
- Four single mode duplex fibers.
- Employs tunable lasers in the 50GHz ITU-T channel grid (DWDM) with four receivers.
- 96 Channel DWDM multiplexers/demultiplexers
- Passive DWDM mux/demux with 50GHz grid over a single mode fiber pair.
- Up to 24 "differently colored" 100Gbps DWDM CFP transceivers can be reported extendable with standard, stand-alone **EDFAs** to >100kms







## Issues to be aware of

- 100Gbps DWDM CFP offers 15-20km reach
- The reach can be further extended 10 > 100km but one has to take care:
  - Amplification
  - Dispersion Compensation
  - FEC, error correction option
  - Upgrade scenario, fiber types and other co-propagating channel information (10G/40G)

### More Information:

[http://www.cubeoptics.com/competence/100G\\_Metro\\_Evolu](http://www.cubeoptics.com/competence/100G_Metro_Evolu)

/

**Contact us!**



**We look forward to  
providing you with  
further information.**

**Contact:**

**Steve Jones**

**+44 (0) 7900 881729**

**steve.jones@cubeoptics.c  
om**

**www.cubeoptics.com**