

Thoughts on Rate Objective

IEEE 802.3
Next Generation BASE-T Study Group

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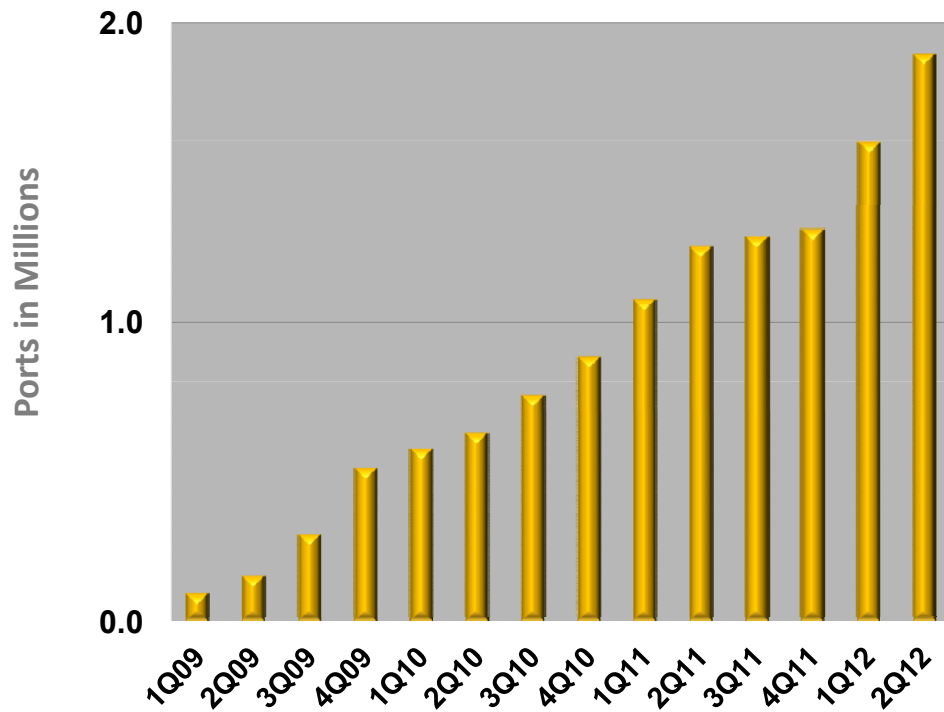
Geneva, CH Sept 2012

Supporters

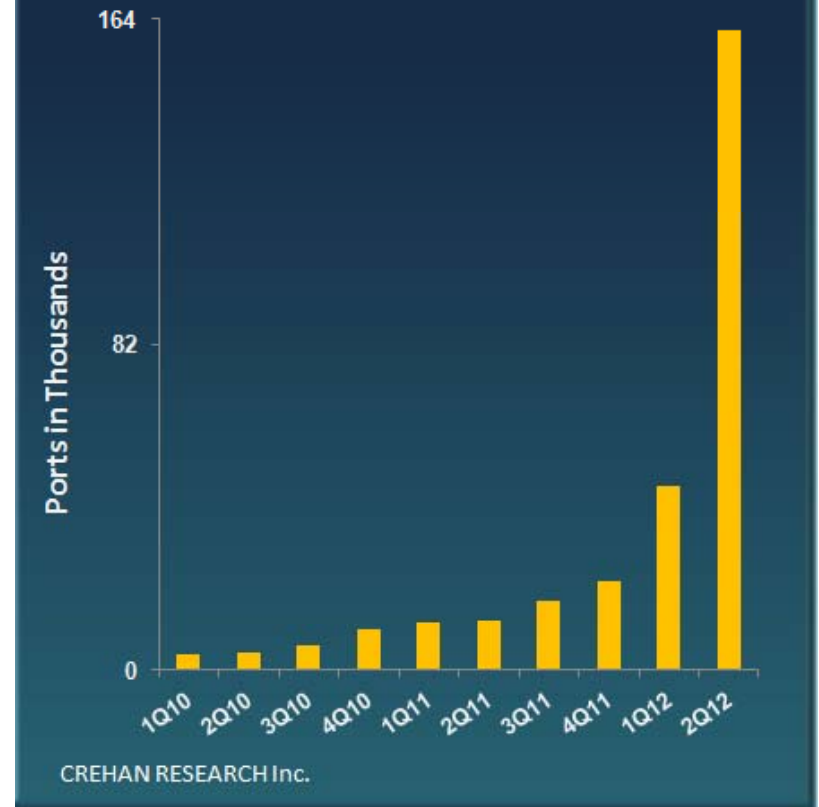
- Barry Barnett, IBM
- Stephen Bates, PMC-Sierra
- Mike Bennett, LBNL
- Will Bliss, Broadcom
- Brad Booth, Dell
- Steve Carlson, High Speed Design
- Mandeep Chadha, Vitesse
- Dave Chalupsky, Intel
- Dan Dove, Applied Micro
- Dave Dwelley, Linear
- Alan Flatman, LAN Technologies
- Ilango Ganga, Intel
- Wayne Larsen, Commscope
- Kent Lusted, Intel
- Mark Nowell, Cisco
- Gavin Parnaby, Marvell
- Pravin Patel, IBM
- Rick Rabinovich, Alcatel-Lucent
- Kapil Shrikhande, Dell
- Bruce Tolley, Solarflare
- George Zimmerman, CME Consulting (Commscope)

The 10GbE Server Market Looks Bright!

10GbE Server-class Adapter/LOM Shipments



Server-class Adapter & LOM 10GBASE-T Shipments



All data used with permission Seamus Crehan, Crehan Research.

The Rate Debate – Part Deux

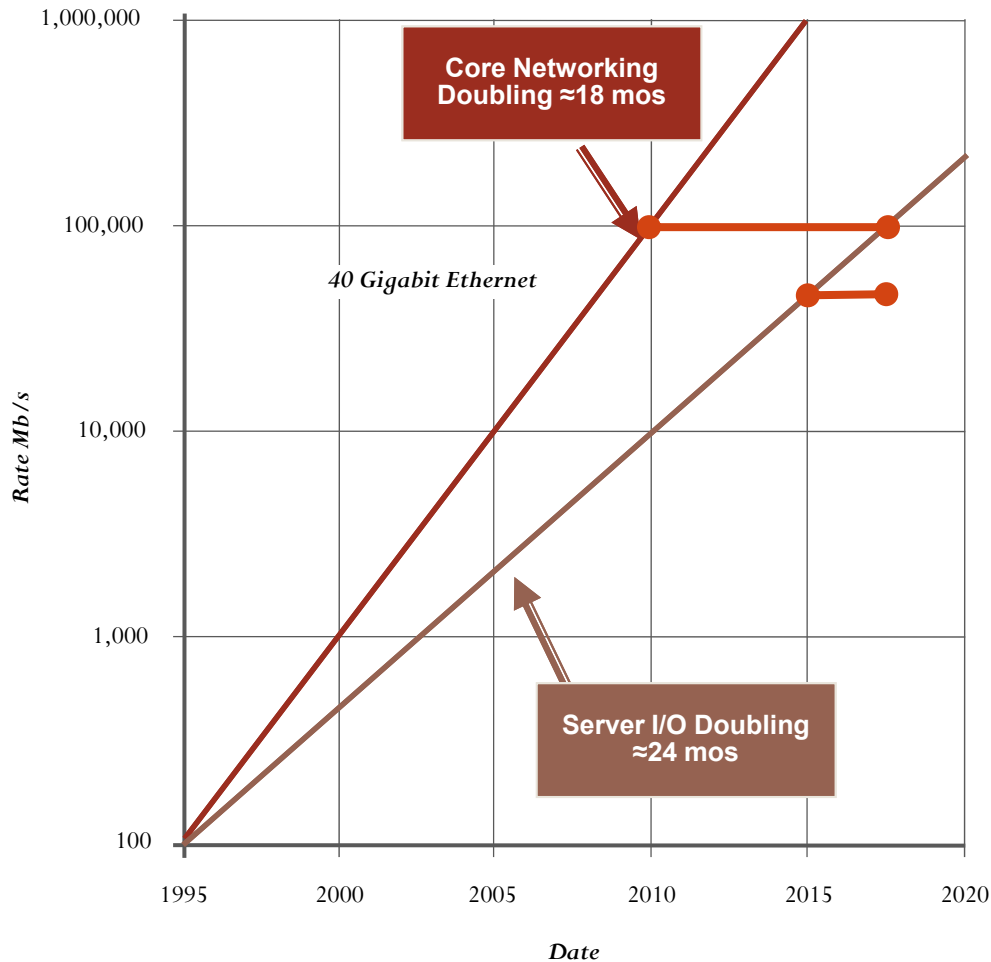


Chart from IEEE 2007 HSSG Tutorial -
http://www.ieee802.org/3/hssg/public/nov07/HSSG_Tutorial_1107.zip

- Timing
 - Nov 2002 - 10GBASE-T CFI
 - June 2006 - Std Ratification
 - Q2 2012 – Hockey Stick!
- Remember HSSG 2007
 - Concern about timing of dual speeds
- July 2012 Next Gen BASE-T CFI
- The future is blurry
 - 2017 – 100G Sever I/O Capacity?
 - PCI-E Gen 4?
 - Next Gen BASE-T Hockey Stick - ???

Summary

- Two rates available, but consensus on 40G

However

- Repeat of 10GBASE-T development and deployment could miss 40G market all together, and miss having solution for 100G market
- Target the 40GbE 2015 - 2018 Data Center Market – not the Shannon capacity limit!