

Advanced TCA[®]

μTCA[™]

MicroTCA Hardware Is A Reality

Will Chu

CorEdge Networks

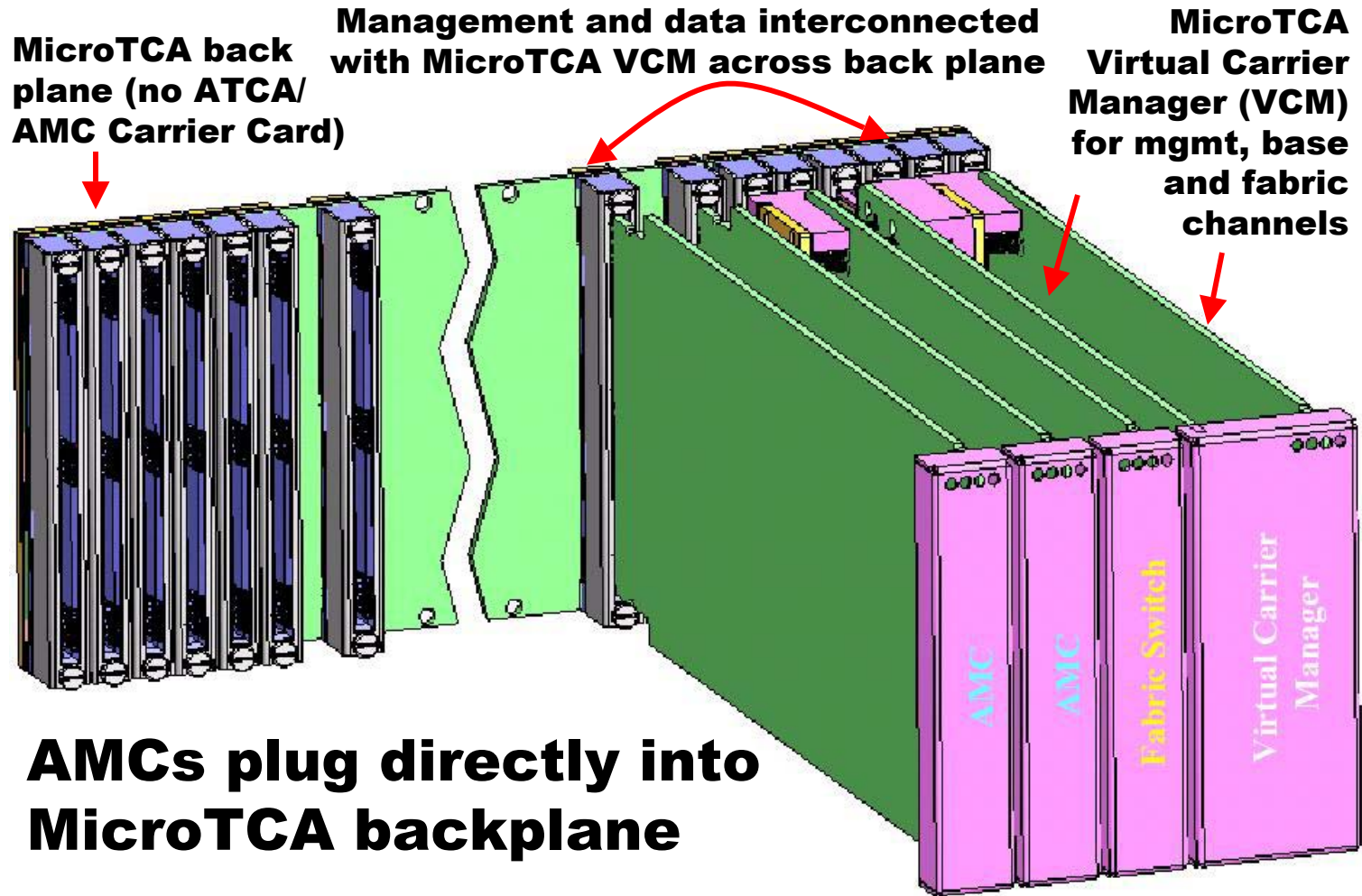
7 December 2005

www.coredgenetworks.com/Events.html

Introduction

- **Who knows what MicroTCA is?**
- **Who thinks MicroTCA is viable?**
- **When will MicroTCA be viable?**

MicroTCA Is AMC Centric



AMCs plug directly into MicroTCA backplane

What Will Make MicroTCA Real?

- **Specification Approval**
 - For MicroTCA, this largely means ratifying the spec for the Virtual Carrier Manager and its operating environment
- **Working Hardware**
 - VCMs (Virtual Carrier Manager), chassis, connectors, backplanes, power modules, etc.

Specification Approval

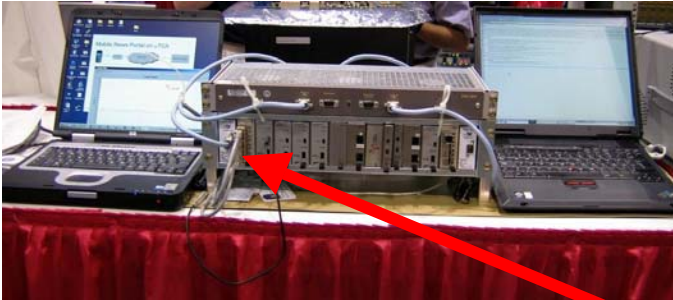
- **PICMG MicroTCA version 1.0 specification anticipated by Q2 2006**
 - Version 0.8 of the specification available now
 - Version 0.9 expected by late January 2006
 - Version 1.0 expected by late April 2006

Working Hardware

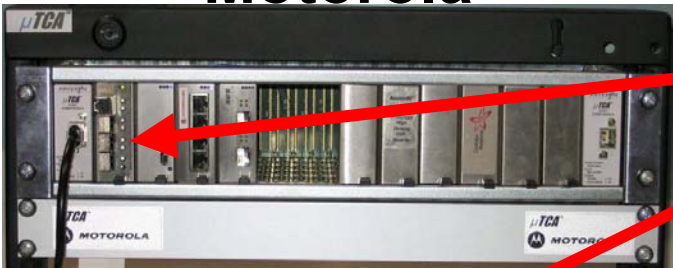
- **CorEdge Networks (CEN) VCM History**
 - **June 2005:** Working *MicroTCA VCM v1.0* demo for SuperComm 2005 in Chicago
 - **Nov 2005:** Working *MicroTCA VCM v2.0* demo for for MicroTCA face-to-face in Chicago (last week)
- **CorEdge Networks MicroTCA Plans**
 - Commercially available MicroTCA VCM the day that version 1.0 specification approved
 - \$200 quantity volume price target

SuperComm '05 MicroTCA Demos

Ericsson



Motorola



SBS



CorEdge Networks



**CorEdge
Networks
MicroTCA
VCM v1.0**

**MicroTCA
75mm x 19" rack system**

**MicroTCA Cube
(150mm)**

CorEdge Networks (www.coredgenetworks.com) - ATCA Summit 7 Dec 2005

CorEdge Networks VCM v2.0

- **Form Factor:** single-width, full-height AMC (75mm x 182mm x 31mm)
- **Base Channel:** 14-port Layer 2, unmanaged, non-blocking, low latency, 1Gbps Ethernet switch
- **Mgmt:** Radial IPMI to each AMC
- **Face Plate:** dual 1GigE, Micro-DB15 (Telco Alarms), Push button reset, Status LED's, AMC latch
- **Single chip solution** => low cost in volume



What About A Complete Working System?

- **Introducing the MicroTCA / AMC Test Chassis**
 - 1st implementation of a “[PicoTCA](#)” system
 - [PicoTCA](#) (def): A small packaging option of MicroTCA that consists of a small number of AMCs and the basic Virtual Carrier support components needed to operate them
 - Supports two AMCs or one VCM + one AMC
 - Shelf management card
 - Removable fan and filter tray
 - And it works today!

CorEdge Networks MicroTCA / AMC Test Chassis System



Conclusion

- **In six months, companies will start shipping MicroTCA product**
- **Prospective players need to get moving, or get left behind!**
- **For more information visit:**
www.coredgenetworks.com