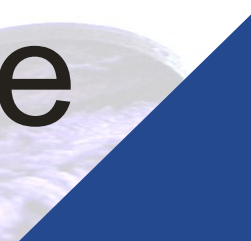




MTCA once and then...

powerBridge
C o m p u t e r

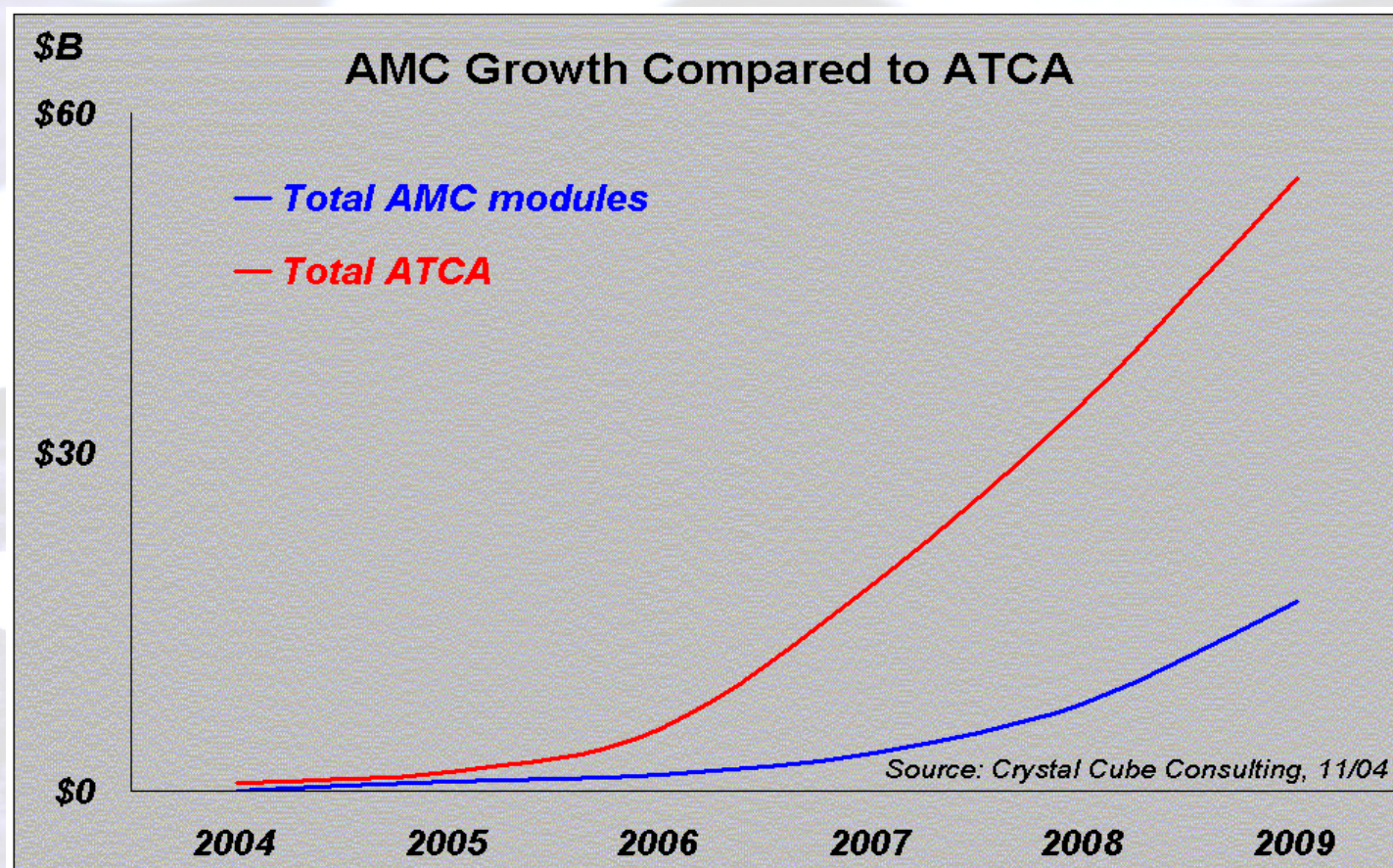


2004

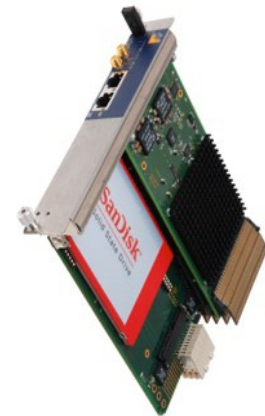
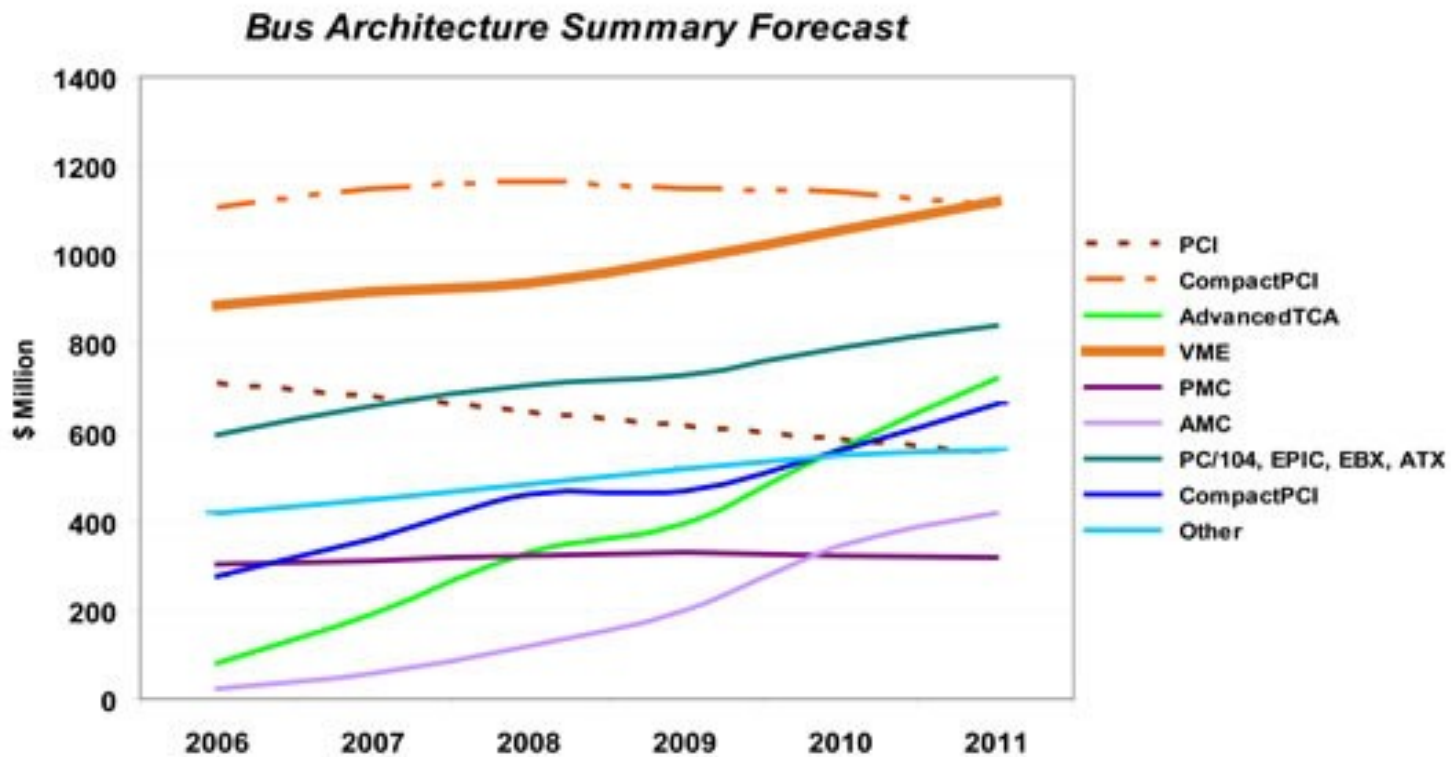
“More telecom equipment manufacturers are taking advantage of the cost savings that they and their customers can achieve from using open industry standards such as AdvancedTCA and SA Forum,” said Lee Doyle, Group Vice President, Network Infrastructure, International Data Corp., a leading industry analyst firm. “ATCA enables telecom equipment manufacturers to get to market faster so that service providers can benefit from open standards much sooner than was possible using the traditional building block approach to communications computing platform integration.”



Huge expectations in 2004



Architecture prognosis 2006



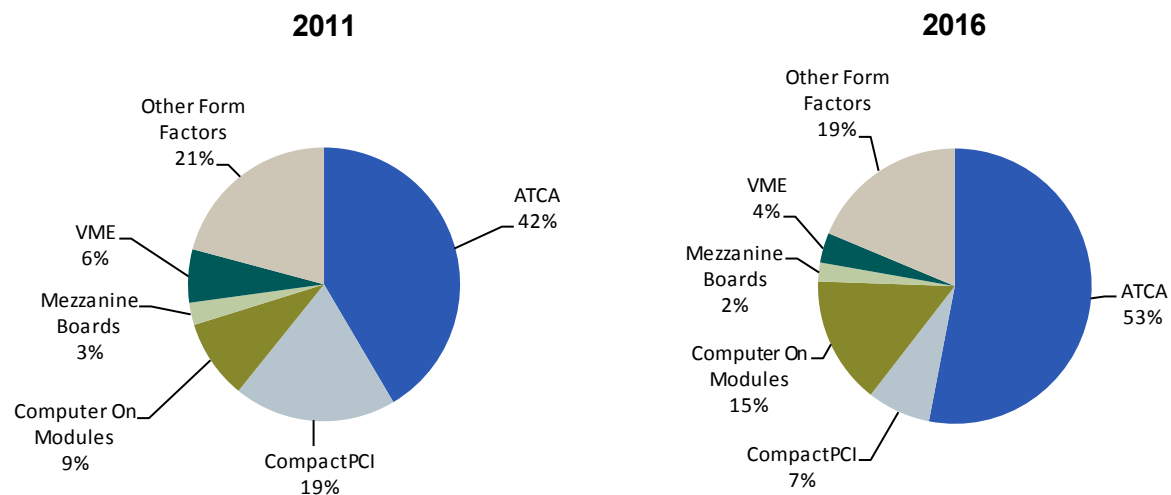
Latest market report

conducted by IHS (formerly IMS research)

Figure 8

Market Share of Form Factors Used in Communication and Networking Applications

Revenues (\$M) 2011 and 2016



Source: IMS Research

May-12

VME is going to decline.

ATCA is still growing (which includes MTCA), while is expected to reach peak in 2016

ATCA is expected to be the dominating standard until 2016

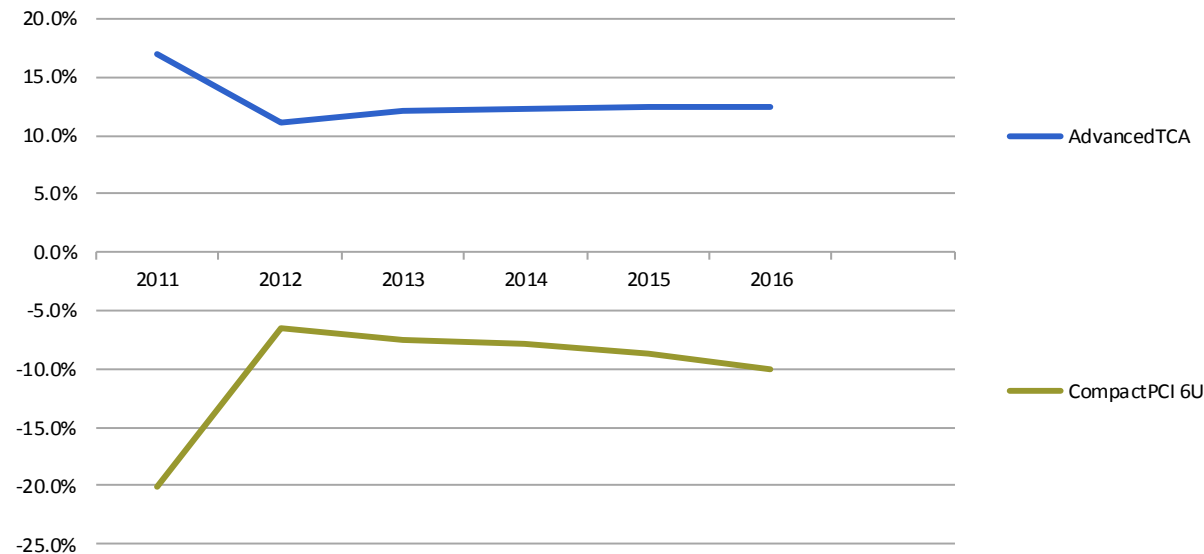


Advanced TCA market trends

Figure 3

ATCA vs CompactPCI 6U Growth

Revenue Growth - 2011 to 2016



Source: IMS Research

May-12

- ATCA is replacing CompactPCI in communication applications.
- Some small ATCA growth in applications outside communications
- ATCA undergoing a transition to 40 GB, maybe even 100 GB Ethernet

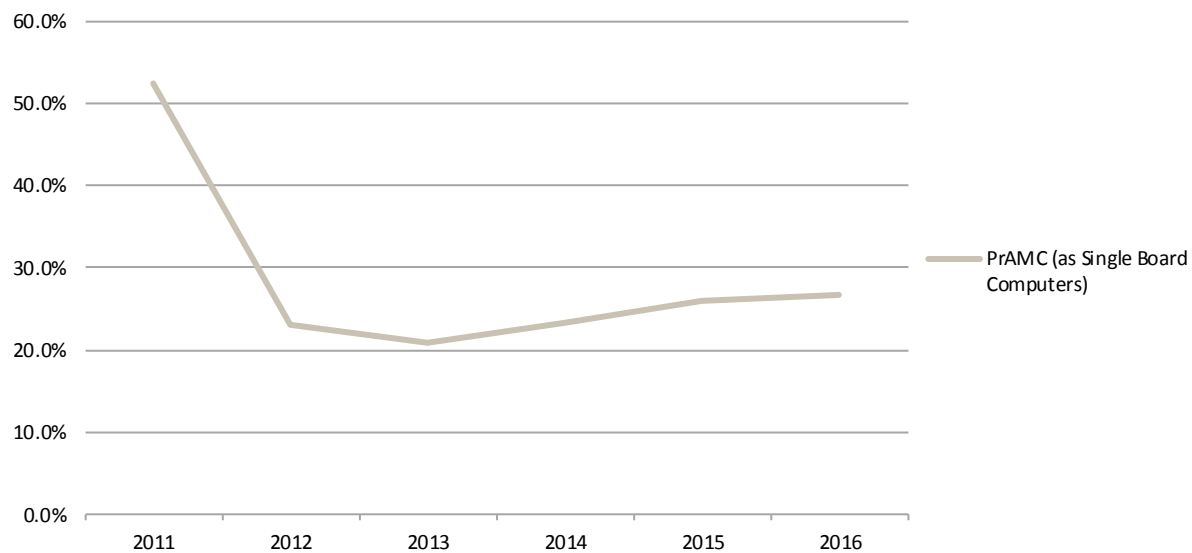


MicroTCA Trends

Figure 4

The World Market for PrAMCs

Revenue Growth Profile - 2012 to 2016



Source: IMS Research

May-12

- Some promising potential niches outside of traditional communications.
- MicroTCA .4 specification has helped.
- Price could still be a concern.
- Some regional variation in uptake.



Market shares (by Technologies)

- IMS research did a very good market report
- full report has approx. 150 tables, each with multiple data points
- it also forecasts the market for the coming years

Report Author: Toby Colquhoun
Toby.Colquhoun@ihs.com



AMC Module Market Overview (1)

Supplier	Type	Specifics
Adlink	Processor	Core 2 Duo, SATA HDD, Fibre Channel
Advanced IO Systems	I/O	10GbE
Advantech	Processor, Storage, I/O	Intel, QorIQ, SATA HDD, GbE
Aixsolve	I/O	FPGA (Xilinx), Broadcast, DAC
Bittware	I/O	FPGA (Altera Stratix)
Commagility	I/O	FPGA (Xilinx) + DSP, CPRI, OBSAI
Concurrent Tech.	Processor & Storage	Core i7 (second & third gen.), Core 2 Duo, Xeon, SATA HDD
DDC	I/O	MIL-1553
Embedded Planet	Processor	PowerQUICC, QorIQ
ESD	I/O	Analog Digital IO, CAN, PCIe AMC carrier
GateWare	MCH & I/O	MCH, Load module



AMC Module Market Overview (2)

Supplier	Type	Specifics
GE Intelligent Platforms	Processor & Storage	Packet processing, Storage
Instrumentation Technologies	I/O	ADC, Sync
Interphase	Processors & I/O	Network processors, E1/T1, ATM modules
Interphase Concept	I/O	FPGA, ADC, DAC
Jumpgen	Processor & Network	Intel, Tilera TILE, Storage, Packetprocessor
Kontron	Processor & I/O	Intel, QorIQ, PowerQuicc, Storage (SATA, SAS), Network processors, Network (1, 10GbE)
Nutaq (former Lyrtech)	I/O	Clock & Trigger, FPGA (Xilinx)
Nallatech	I/O	FPGA (Xilinx)
NAT	MCH, Processor, PEM & I/O	MCH, QorIQ, PowerQuicc, FPGA, IO, EtherCat, Extender modules, DSP Tigershark, Load Module
Performance Technology	MCH, Processor	MCH, Intel, PowerPC, IO & COMMS, Graphics Storage combined
Prodrive	Processor & I/O	PowerQuicc 3, Multi-I/O, Optical Link (SFP)



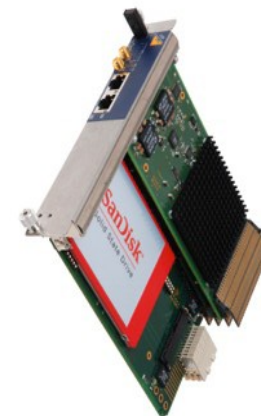
AMC Module Market Overview (3)

Supplier	Type	Specifics
RadiSys	Processor & I/O	Storage, STM-1/OC-3, Packet Processing
Samway	MCH, PEM, I&O	MCH, Load Module
SanBlaze	Storage	SATA RAID Controller, Fibre Channel, SATA HDD/SSD
Scan Engineering Telecom	Processor, MCH, I/O	Intel, SATA HDD, FPGA, DSP, serial COMMS, GbE,
SPDevices	I/O	ADC
Struck Innovative Systeme	I/O	ADC
Surf	I/O	DSPs TI C648X (Voice and Video)
Tews	I/O	IP-Carrier, PMC Carrier, FPGA, high-speed ADC, Serial Comms, I/O
Vadatech	MCH, Processor, PEM & I/O	MCH, QorIQ, PMC/XMC Carrier, Network (1/10G), Packet processing, Graphics, Serial Comms, FireWire, Infiniband, Digital I/O, Storage, FPGA (Xilinx, Altera, ADC, DAC), Development, Load module
X-ES	Processor & I/O	Core 2 Duo, MPC7448









PEM Module Market Overview

Supplier	Specifics
BlueTek	Double, 600W, AC, MTCA.4
NAT	Single, 780W, DC, 600W, AC
Samway	Single, DC
Telkoor	Double, 600W, 1.000W, AC, MTCA.4
Vadatech	Single, 460, DC, Double, 780W, DC
WIENER Plein + Baus	800W, AC, MTCA.4



Chassis Market Overview 2012

Supplier	Specifics
	Hardened, ATR, 19", wall mount, customer specific (Hybricon)
	19", development chassis, wall mount, customer specific, MTCA.4
	19", small 1U or 2U chassis
	19", customer specific, Simple MTCA chassis, wall mount, MTCA.4
	19", development chassis, wall mount, customer specific, MTCA.4
	19", customer specific, MTCA.4



Real market applications 2012

test and measurement

- testbeds for avionics
- high speed visual inspection
- NDT
- spectral analysis

telecommunication applications, such as

- PABX
- gateways
- LTE basestation (CPRI, OBSAI)
- conferencing platforms

medical has adopted MTCA for

- high speed data acquisition
- image processing

others

- Broadcast
- homeland security and defence



Let´s discuss your requirements and test our performance!

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