2012 SBC Overview

Platforms   **Software**   **Switching**   **Processors**

ZNYX

ATCA SBC Product Line

Mission Requirement

Spyglass Hill
ZX9210 and ZX9240
Maximum Computing

The Most CPU and Memory Resources Possible In an ATCA Payload Blade

- Two Processor Sockets
- Sandy Bridge EP LGA 2011
- Four Memory Bus Design
- 16 DDR3 DIMM Sockets

Pebble Beach
ZX9110 and ZX9140
Maximum Flexibility

Highest Performance AMC I/O With The Latest Processor And Maximum Memory

- One Processor Socket
- Sandy Bridge EP LGA 2011
- 12 DDR3 DIMM Sockets
- AMC Slot

ATCA SBC Applications

Each ZNYX Product Architecture
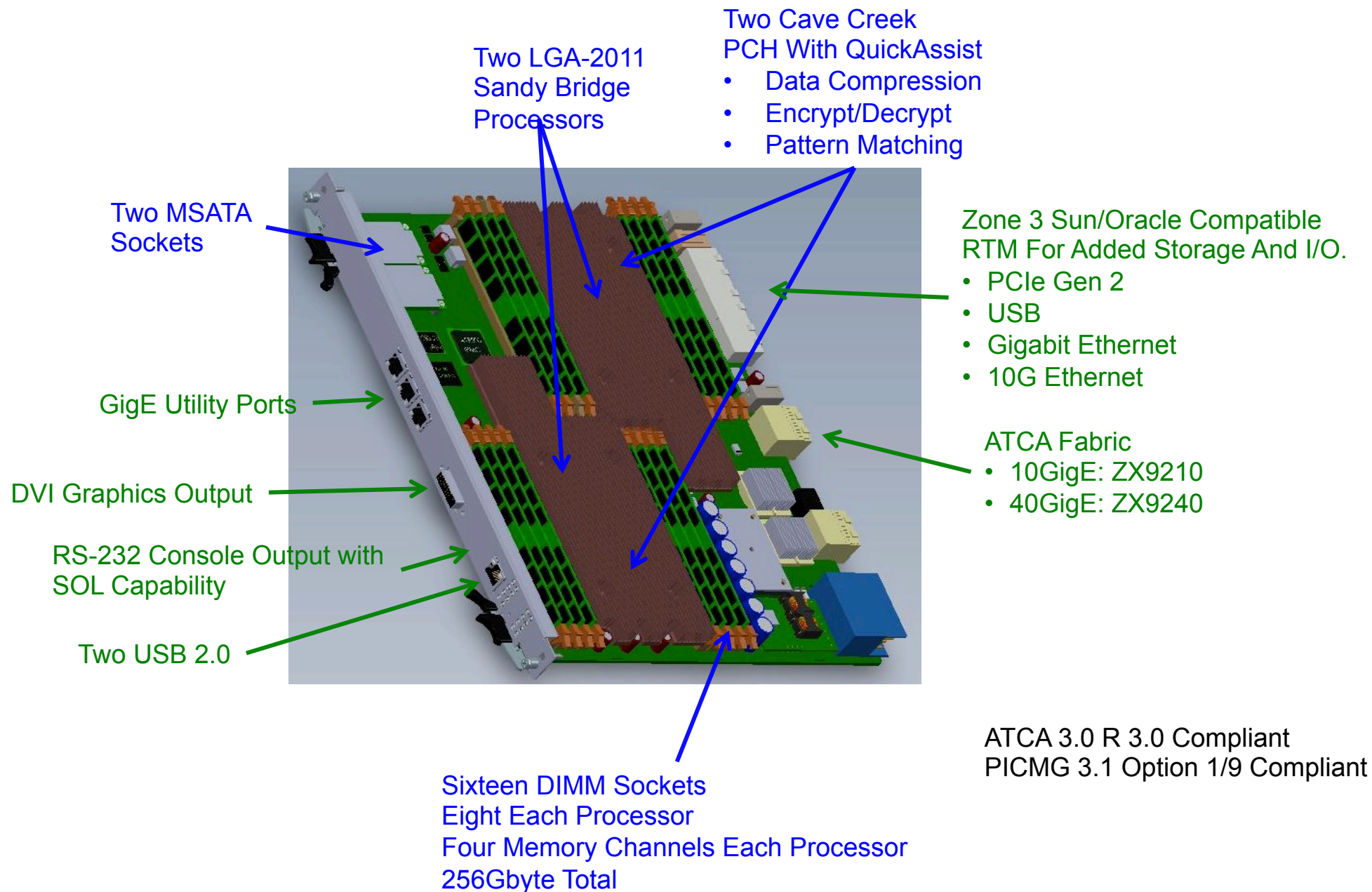Optimizes The
Application

Spyglass Hill

- Virtual Servers For Multi-Tenant Applications
- Packet Processing 50Gbit
- Deep Packet Inspection (DPI)
- Hadoop Processor Farms
- Parallel Search Engines

Pebble Beach

- Large Memory Applications
- Line Card Media Conversion
- Packet Processing
- Video Servers

Spyglass Hill: Dual Socket

Two LGA-2011 Sandy Bridge Processors

Two Cave Creek PCH With QuickAssist
- Data Compression
- Encrypt/Decrypt
- Pattern Matching

Two MSATA Sockets

Zone 3 Sun/Oracle Compatible RTM For Added Storage And I/O.
- PCIe Gen 2
- USB
- Gigabit Ethernet
- 10G Ethernet

GigE Utility Ports

ATCA Fabric
- 10GigE: ZX9210
- 40GigE: ZX9240

DVI Graphics Output

RS-232 Console Output with SOL Capability

Two USB 2.0

ATCA 3.0 R 3.0 Compliant
PICMG 3.1 Option 1/9 Compliant

Sixteen DIMM Sockets
Eight Each Processor
Four Memory Channels Each Processor
256Gbyte Total

ZNYX

Pebble Beach: Single Socket With AMC

Cave Creek PCH With QuickAssist
- Data Compression
- Encrypt/Decrypt
- Pattern Matching

Two MSATA Sockets

Multi-Purpose AMC/XMC Slot
- AMC.1 PCIe Gen 2
- Hard Drive Bay
- Network Processor

Zone 3 Sun/Oracle Compatible RTM For Added Storage And I/O.
- PCIe Gen 2
- USB
- Gigabit Ethernet
- 10G Ethernet

ATCA Fabric
- 10GigE: ZX9110
- 40GigE: ZX9140

GigE Utility Ports

DVI Graphics Output

RS-232 Console Output with SOL Capability

Two USB 2.0

Twelve DDR3 DIMM Sockets
Four Memory Channels
192Gbyte Total

LGA-2011 Sandy Bridge Processor

ATCA 3.0 R 3.0 Compliant
PICMG 3.1 Option 1/9 Compliant

OpenArchitect® 4

▸ All ZNYX SBCs are delivered with a pre-installed copy of OpenArchitect/4

- Ready-To-Work

- Remove If Needed

▸ Linux 3.0 Base Ubuntu OS

- GUI Environment

- Debian software management

▸ Same Code Base as ZNYX Switch Products with Intel Architecture

▸ KVM Virtual Environments

ZNYX Complete 5U Solution

The ZNYX Ultra5™ Chassis Is The Perfect Platform For Spyglass Hill and Pebble Beach

- ✓ Up to Six SBCs in 5U chassis
- ✓ Two 10G Switches Included
- ✓ Delivered Ready-To-Run

Two Hot Swappable 200Gbit Switch With ShMC

Six 10G SFP+ Egress Ports Per Switch

Full RTM Support Two DC PEMs

Six PICMG 3.1 Option 1/9 ATCA Slots

Hot-Swap Cooling 375W/Slot

See The Ultra5 Presentation And Data Sheets For More Details