

ATC6239

AdvancedTCA Processor Node Board



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AdvancedTCA[®]



Form Factor

- AdvancedTCA Node Board
- Dual Socket AMD Opteron™ Socket F (1207)

CPU/Chipset

- Dual-Core 1.8 GHz (Santa Rosa)
- Quad-Core 1.8 GHz (Barcelona)
- Quad-Core 2.4 GHz (Shanghai)
- Hex-Core 2.1 GHz (Istanbul)
- Broadcom HT2100 and HT1000 Chipset

Bus Interface

- HyperTransport x16 Link on CPU
- Supports one on-board AMC.1 card

Memory

- Configurable up to 32GB with 72-bit registered
- ECC DDRII 533/667/800 MHz VLP modules

I/O

- On-board CompactFlash carrier
- One AMC.1 site - The Fabric is x4 PCI-Express Gen-1 (V1.0 and 1.0a compliant)
- Common Options Region supports 1 SATA

Front I/O

- 1G Ethernet
- (2) USB 2.0 ports
- RJ45 serial port

Backplane I/O

- (2) 1G Ethernet controller for Base interface
- (2) 10G Ethernet controller for Fabric interface

• RTM I/O

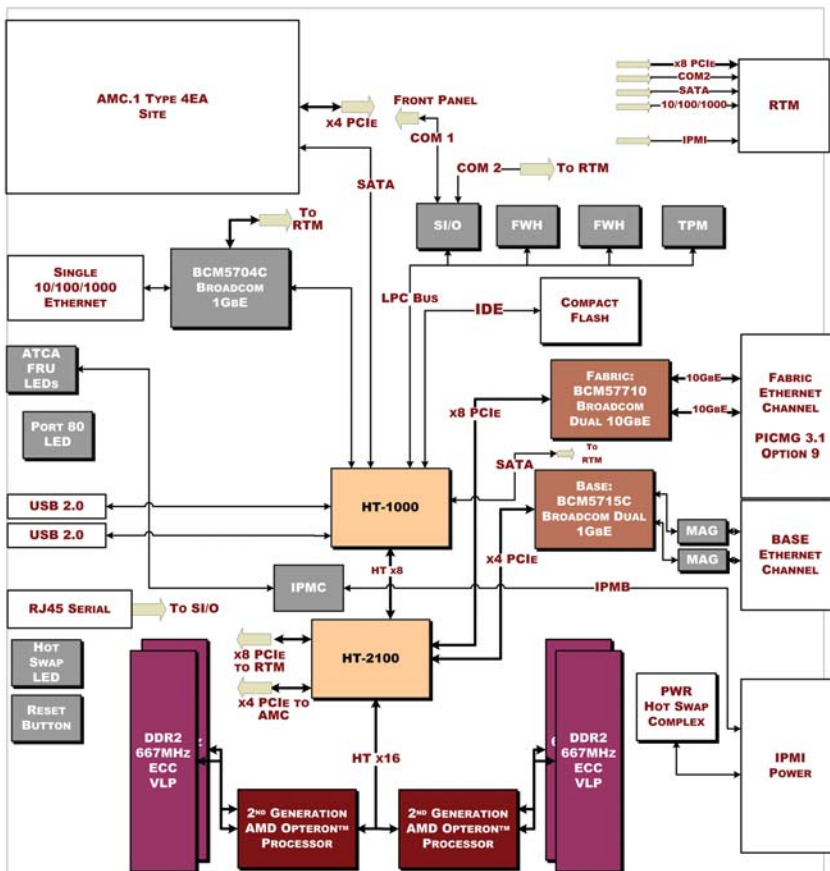
- SATA or SAS Storage
- 1G Ethernet
- Video
- (3) USB 2.0 ports
- RJ45 serial port

OS Support

- Microsoft® Windows Vista, XP
- Microsoft® Windows Server™ 2003, 2008
- Red Hat Enterprise Linux 5 (CentOS 5)
- Ubuntu 8.10, 11
- SuSE 10.2, 11
- Virtualization:
VMware ESX, Microsoft Hyper-V, Xen
- Call for other OS Options

Warranty

Parts and labor covered for 2 years



CPU / Cache

- Dual Socket AMD Opteron™ Socket F (1207)
- 1.8GHz Dual-Core (Santa Rosa) 2210EE
1MB L2 Cache per core
- 1.8GHz Quad-Core (Barcelona) 23HF
512KB L2 Cache per core
2MB shared L3 Cache per processor
- 2.4GHz Quad-Core (Shanghai) 2379HE
- 2.1GHz Hex-Core (Istanbul) 2425HE
512KB L2 Cache per core
6MB shared L3 Cache per processor
- Broadcom HT2100 and HT1000 Chipset

Bus Interface

- HyperTransport x16 and x8 Links
- 533/667MHz DDRII Memory Module (VLP module)
- Supports one on-board AMC.1 site
- x8 PCI-Express Gen-1 (V1.0 and 1.0a compliant)
- ARTM (Sun Netra Blade Signaling)

Memory

- Configurable up to 32GB with 72-bit registered
- ECC DDRII 533/667/800MHz VLP modules

Data Path

- HyperTransport x16 Link on CPUs
- HyperTransport x16 Link on HT2100
- HyperTransport x8 Link on HT1000
- 2.5GHz x8 PCI-Express Gen-1 (V1.0 and 1.0a compliant)
- 64-bit/66MHz on-board PCI-X Peripherals

Clock / Calendar

- Real-time clock with 256 byte battery-backed CMOS RAM

BIOS

- AMI Embedded BIOS with boot from HD, CD-ROM and network
- Console redirection, PnP, PCI auto-configuration
- Redundant Flash BIOS

Peripherals and I/O Interface

- AMC.1 site
- CompactFlash
- Pigeon Point IPMI support with KCS

I/O Interface	Front Panel	Backplane	AMC	RTM
USB 2.0	2			3
RJ45 Serial	1			1
GB ENET	1	Base		1
PCI Express			x4	x8
10G ENET		Fabric		
SAS/SATA			1	1
Video				1

Supervisory

- AdvancedTCA® Compliant Management

OS Compatibility

- Microsoft® Windows Vista, XP
- Microsoft® Windows Server™ 2003, 2008
- Red Hat Enterprise Linux 5 (CentOS 5)
- Ubuntu 8.10
- SuSE 10.2, 11
- Virtualization: VMware ESX, Microsoft Hyper-V, Xen
- Call for other OS Options

Mechanical

- Conforms to PICMG® 3.0 R2.0 (Core), PICMG® 3.0 Option 9

Power Requirements

- Max Power Dissipation 145W
- ICC typical 48V 2.4A

Environmental

Operating

- Temperature: -5° to 55°C (Contact DTI for Extended Temperatures)
- Humidity (RNC): < 95%
- Altitude: 4,000m / 13,000 ft @40°C
- Shock: 10g 11ms half-sine
- Vibration: 5-100Hz @ 1g sine sweep

Storage and Transit (with HD)

- Temperature: -40° to 70°C
- Humidity (RNC): 10% to 90% non-condensing
- Altitude: 12,192m / 40,000 ft
- Shock: 40g 6ms half-sine, 500/axis
- Vibration: 5-50Hz @ 0.5g 50-100Hz 3g sine sweep
Random 5-20Hz @ 0.01g2/Hz; 20-500 -3dB slope

Reliability & Serviceability

- MTBF: 123,676 hours @ 25°C
- 2 year limited warranty

The reliability prediction was done using Issue 6, Method I, Case 3 of the Bellcore Industrial Reliability program. The prediction assumed a 100% duty cycle, in a ground benign, controlled environment.

Regulatory Compliance

- Designed for NEBS/ETSI Compliance
- CE Certification with national deviations
- Safety: UL/cUL 60950-1:2003; TUV CB EN/IEC 60950-1:2001
- EMI/EMC: FCC 47 CFR Part 15 Class B;
EN 55022:2006; EN 55024:1998

Ordering Information

ATC6239/DC1800

1.8GHz Dual-Core (Santa Rosa) 2210EE, 2 x 1MB L2

ATC6239/QC1800

1.8GHz Quad-Core (Barcelona) 23HF, 4 x 512KB L2, 2MB L3

ATC6239/QC2400

2.4GHz Quad-Core (Shanghai) 2379HE, 4 x 512KB L2, 6MB L3

ATC6239/HC2100

2.1GHz Hex-Core (Istanbul) 2425HE, 6 x 512KB L2, 6MB L3

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www.dtims.com/atca

1.800.443.2667

476 Highland Colony Parkway • Ridgeland, MS 39157

