

ATC7000

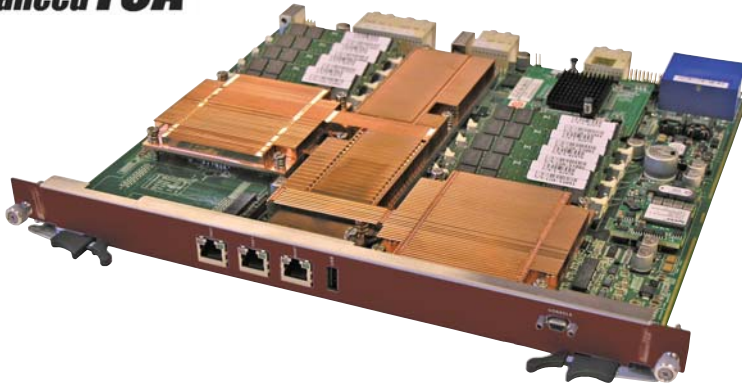
AdvancedTCA Processor Node Board



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AdvancedTCA[®]



Form Factor

- 8U AdvancedTCA Node Board, PICMG 3.0

CPU/Chipset

- Dual Intel Westmere CPUs
- Two Processor Options:
 - 1) Intel Xeon L5638 Processor
Six Cores, 2.0GHz, NEBS compliant
 - 2) Intel Xeon E5645 Processor
Six Cores, 2.4GHz, non-NEBS environment
- Intel 5520 (Tylersburg) Chipset

Bus Interface

- Base interface compliant to PICMG 3.0
- Dual Redundant 1 GbE
- Dual 10G Fabric, Intel 82599 NIC

Memory

- 8 DDR3 DIMM Sites up to 64GB

Front Panel I/O

- (2) Gigabit Ethernet - User
- (1) Gigabit Ethernet - Management
- (1) USB
- (1) Serial Port

Two Rear Transition Module (RTM) Options

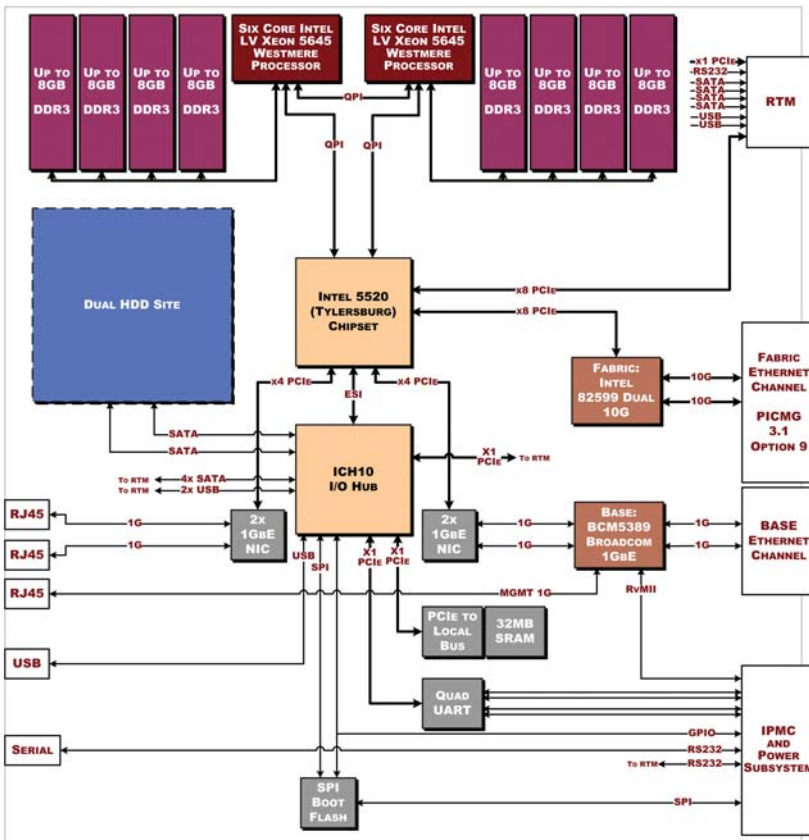
- **TM7000**
 - (4) Port SAS Connector
 - (2) USB Ports,
 - (2) Ethernet Ports
 - (1) VGA Port
 - (1) Serial Port
- **TM7000HD**
 - (2) SAS Hard Drives
 - (2) USB Ports,
 - (2) Ethernet Ports
 - (1) VGA Port
 - (1) Serial Port

OS Support

- Microsoft[®] Windows Vista, XP
- Microsoft[®] Windows Server[™] 2003, 2008
- Red Hat Enterprise Linux 5 (CentOS 5)
- Ubuntu 8.10
- SuSE 10.2, 11
- Call for other OS Options

Warranty

Parts and labor covered for 2 years



CPU / Chipset / Memory

- Dual Intel Westmere CPUs
- Two Processor Options:
 - 1) Intel Xeon L5638 Processor
 - Six Cores, 2.0GHz, NEBS compliant
 - 2) Intel Xeon E5645 Processor
 - Six Cores, 2.4GHz, non-NEBS environment
- Intel 5520 (Tyersburg) Chipset
- 12MB L2 Cache
- Hyperthreading
- Integrated Memory Controller
- 8 DDR3 DIMM sites (64GB support)
- 32MB persistent SRAM (not affected by reset)

Connectivity

- Base interface compliant to PICMG 3.0 (dual redundant 1GbE)
- 10G Fabric Mezzanine support for Intel NICs
- Front Panel I/O
 - (2) Gigabit Ethernet - User
 - (1) Gigabit Ethernet - Management
 - (1) USB
 - (1) Serial Port
- RTM I/O
 - High Performance 4-port external SAS connector
 - (2) USB ports on the rear panel
 - (2) 10/100/1000BT Gigabit Ethernet Ports
 - (1) VGA Port
 - (1) Serial Port

Storage

- Dual hot-swappable 2.5 inch SAS/SATA HDD on RTM
- (2) Solid state disks on-board storage

OS Support

- 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 R3.0, PICMG® 3.0 Option 9

Power Requirements

Max Power Dissipation

210W with L5648 (without RTM)

254W with E5645 (without RTM)

30W RTM

Environmental**Operating**

- Temperature:
 - -5° to 55°C with L5648
 - 0° to 40°C with E5645
- 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: TBD 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**ATC7000L**

Dual Intel Xeon 2.0GHz L5638 processors, NEBS compliant

ATC7000E

Dual Intel Xeon 2.4GHz E5645 processors, non-NEBS

2 RTM Options:**TM7000**

- (4) Port SAS Connector
- (2) USB Ports
- (2) Ethernet Ports
- (1) VGA Port
- (1) Serial Port

TM7000HD

- (2) SAS Hard Drives
- (2) USB Ports
- (2) Ethernet Ports
- (1) VGA Port
- (1) Serial Port

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