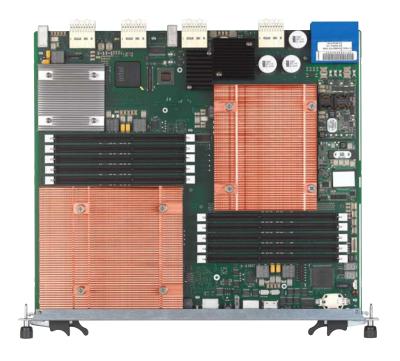
The ATCA-7360 processor blade is an ideal solution for communications equipment requiring powerful server class processing performance, flexible mass storage and network options

- High performance Intel® Architecture processor blade
- Two quad-core Intel[®] Xeon[®] processors L5518 (2.13 GHz)
- Up to 80GB main memory
- Hot-swappable hard disk with flexible choice of storage options
- RAID 0/1 support
- Multiple network and storage I/O connectivity
- Option 9 (1/10GbE) ATCA fabric interface
- Designed for NEBS and ETSI compliance
- Multiple software packages including operating systems

The Emerson Network Power ATCA-7360 is an Intel® Architecture server blade that delivers a combination of performance and flexibility to help drive the successful implementation of next-generation telecom networks and communication infrastructures. It builds on the AdvancedTCA® (ATCA®) standard to provide the right product at the right time to meet the needs of communication industries.

With two quad-core Intel® Xeon® processors L5518, the ATCA-7360 processor blade enables best-in-class compute performance in an ATCA form factor. The PICMG® 3.1 compliant fabric interface provides 10 Gigabit Ethernet (10Gbps) capability for applications requiring higher network throughput in the backplane.

Multiple network and storage I/O interfaces allow the integration into different network infrastructures such as telecommunication central offices and network data centers. Main memory configuration and mass storage options can be flexibly configured providing a perfect fit to the applications needs. Hardware RAID 0 and 1 is supported for locally and externally connected disk drives.

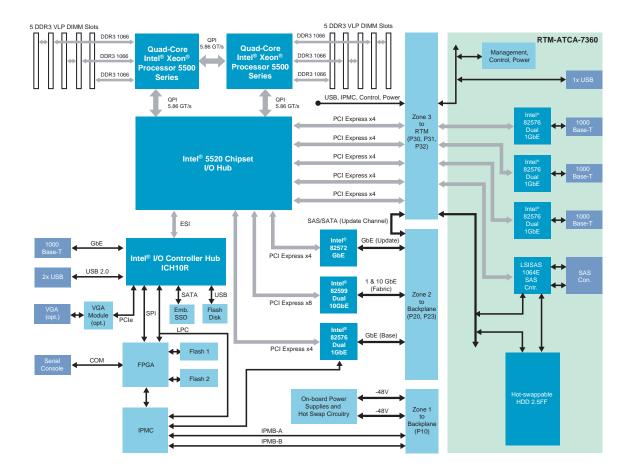








ATCA-7360 Block Diagram



Standard Networking Support

The ATCA-7360 processor blade provides PICMG 3.0 base interface connectivity in a dual star configuration using standard Gigabit Ethernet (GbE) technology. The PICMG 3.1 fabric interface features both dual 10Gbps (Option 9) and dual 1Gbps (Option 1) Ethernet capability. A further 1Gbps Ethernet backplane connection is available on the ATCA update channel. External network connectivity includes 10/100/1000Base-T Ethernet via RJ-45 connector on the blade faceplate. Several rear transition module (RTM) configurations support up to six additional 10/100/1000Base-T connections.

Processor Complex

Both Intel® Xeon® processors L5518 are connected together via QPI busses to share memory resources. The processors can access the entire I/O subsystem via the Intel® 5520 chipset I/O hub. The I/O subsystem consists of:

- Intel® I/O Controller Hub ICH10R
- Intel® 82572 Gigabit Ethernet controller
- Intel® 82576 dual Gigabit Ethernet controllers
- Intel® 82599 dual 10 Gigabit Ethernet controller
- Intel® 82580 dual 10 Gigabit Ethernet controller (on optional RTM)
- LSI Logic LSISAS1064E SAS controller (on optional RTM)

Software Support

The ATCA-7360 blade can be configured with a variety of software offerings, from firmware-only to fully integrated and verified software operating environments.

FIRMWARE

Firmware-only blade-level support is offered for customers taking on the integration and verification responsibilities. It provides all the boot and IPMC firmware required for an ATCA blade.

The BIOS firmware includes support for:

- Unified Extensible Firmware Interface (UEFI)
- Power management support, ACPI 3.0b
- Multiple boot options including:
 - ▲ Local and external hard disks
 - ▲ On-board flash disk
 - ▲ External USB boot media
 - PXE boot via ATCA base interface
 - iSCSI boot via ATCA base interface with operating systems supporting UEFI
- RAID 0/1 support via LSI SAS BIOS extension
- Serial redirection of the BIOS console
- Serial over LAN of the BIOS console via ATCA base interface
- BIOS upgrade via local host

INTELLIGENT PLATFORM MANAGEMENT CONTROL

The ATCA-7360 features an intelligent platform management controller (IPMC). The IPMC is a management subsystem providing monitoring, event logging, and recovery control. The IPMC serves as the gateway for management applications to access the platform hardware. Features include:

- Compliance with PICMG 3.0 and IPMI 1.5
- Rollback capability or IPMC image upgrade failed
- Firmware (BIOS, IPMC, FPGA, FRU) upgradable from IPMI interface (IPMB) and/or locally, or via Basic Blade Services (BBS) firmware upgrade utility
- Support for serial port redirection over LAN interface (IPMI 2.0 compliant)

SUPPORTED OPERATING SYSTEMS

- Red Hat RHEL 5.5 certified
- Wind River PNE LE 3.0
- Prepared for Microsoft® Windows® Server 2008
- Compatible with Windows Server 2003 x86
- Prepared for VMware ESX/ESXi (requires VGA module)

To better exploit the CPU and I/O resources of the blade, RHEL 5.5 supports CPU and I/O virtualization using XEN/KVM. In addition RHEL 5.5 provides code for enabling the processor power management to help enhancing energy efficiency of the blade.

Emerson ATCA blades can be configured with optional software that includes Basic Blade Services. When integrated in one of the Emerson ATCA Centellis™ platforms, the ATCA-7360 comes complete with, and is verified with, Wind River PNE 3.0. This distribution comes with all Linux Support Packages (LSPs) to support Emerson ATCA blades as well as user applications. Basic Blades Services (BBS) software is provided to enable a set of ATCA hardware and software components into a fully integrated and verified telecom platform − the Centellis platform. This platform is ready for customers HA middleware and application environment.

Basic Blade Services include:

- Hardware Platform Management including local IPMC, LED, E-Keying and blade extraction software
- Firmware upgrade utility
- Local management access (CLI)

RELEVANT STANDARDS

- Linux Foundation
- Service Availability Forum™ (SA Forum)
 - ▲ Hardware Platform Interface (HPI) HPI-B.02

Please check with your local sales contact for availability of supported Centellis™ platforms.

Rear Transition Modules

Several RTM variants are available to support different I/O configurations at the RTM faceplate.

RTM-ATCA-7360 includes:

- One (1) USB 2.0 interface
- Six (6) Gigabit Ethernet interfaces, 10/100/1000Base-T, RJ-45 connector
- Two (2) SAS interfaces, SFF-8470 connector
- Disk bay for one (1) hot-swappable hard disk, 2.5"

RTM-ATCA-7360-L includes:

- One (1) USB 2.0 interface
- Two (2) Gigabit Ethernet interfaces, 10/100/1000Base-T, RJ-45 connector
- Two (2) SAS interfaces, SFF-8470 connector
- Disk bay for one (1) hot-swappable hard disk, 2.5"

RTM-ATCA-736X-DD supports:

- Two (2) Gigabit Ethernet interfaces, 10/100/1000Base-T, RJ-45 connectors
- Two (2) disk bays for hot-swappable hard disks, 2.5"

Hardware

PROCESSOR

- Two quad-core Intel® Xeon® L5518 (2.13 GHz) processors
- QuickPath Interface (QPI) 5.86 GT/s
- 8MB L3 cache (per processor)
- 64-bit mode extension (EM64T)
- SMP support

MEMORY

- DDR3-1066 memory controllers integrated into processors
- Total of six independent memory channels
- From 2 to 80GB memory configurations supported
- 4MB primary firmware flash, 4MB redundant flash for failsafe operation
- Reset persistent memory, 16MB SRAM, 64MB flash (optional) Note 1

MASS STORAGE

- Embedded USB flash disk, 4GB (higher capacity upon request)
- On-board solid state disk at SATA, 32GB or 64GB (optional) Note 1
- Hot-swappable hard disk on RTM
- Hard disk drive options including
 - ▲ Enterprise class disks (various capacity options)
 - ▲ 80GB SATA disk with extended temperature range

BASE AND FABRIC INTERFACES

- Dual star configuration
- PICMG 3.0 base interface compliant, Gigabit Ethernet (1.0Gbps)
- PICMG 3.1 fabric interface compliant
- ▲ PICMG 3.1, Option 1 Single, redundant Gigabit Ethernet pair (1.0Gbps)
- ▲ PICMG 3.1, Option 9 Single, redundant 10 Gigabit Ethernet pair (10Gbps)
- PICMG 3.0 Update Channel Gigabit Ethernet (1.0Gbps)

COUNTERS / TIMERS

- Real-time clock
- Programmable watchdog timer

EXTERNAL INTERFACES

- Front panel
 - ▲ 10/100/1000Base-T Ethernet (1), RJ-45
 - ▲ Serial console (1), RJ-45
 - ▲ USB 2.0 (2)
 - ▲ Optional VGA interface (on request)
- Rear transition module
 - ▲ USB 2.0 (1)
 - ▲ Gigabit Ethernet interfaces (2 or 6), optional, RI-45
 - ▲ SAS interfaces (2), SFF-8470

POWER REQUIREMENTS

- Dual-redundant –48 to –60 VDC (TNV-2) rail
- Input range: -41 to -72 VDC
- Power consumption including RTM
 - ▲ Typical: 180 220 W
 - ▲ Maximum: 260 W

THERMAL CHARACTERISTICS

- Operating range: –5 °C to 55 °C
- Airflow requirements according to CP-TA B.4 (B.3 with specific configurations)

RELEVANT BLADE SIZE

8U form factor, 280 mm X 322.5 mm, single slot

RELEVANT STANDARDS

- PICMG 3.0 (form factor, IPMI, base interface, hot swap, RTM)
- PICMG 3.1, Option 1, 9

Ordering Information	
Part Number	Description
ATCA-7360-12GB	ATCA processor blade, dual L5518 quad-core (2.13 GHz), 6X 2GB, 10G support
ATCA-7360-24GB	ATCA processor blade, dual L5518 quad-core (2.13 GHz), 6X 4GB, 10G support
ATCA-7360-48GB	ATCA processor blade, dual L5518 quad-core (2.13 GHz), 6X 8GB, 10G support
ATCA-7360-0GB	ATCA processor blade, dual L5518 quad-core (2.13 GHz), 0GB, 10G support. See Note 1
ATCA-7360-MEM-2G	2GB DDR3 VLP memory module for ATCA-736X product series
ATCA-7360-MEM-4G	4GB DDR3 VLP memory module for ATCA-736X product series
ATCA-7360-MEM-8G	8GB DDR3 VLP memory module for ATCA-736X product series
RTM-ATCA-7360	RTM for the ATCA-736X product series, 6X GbE, 2X SAS, 1X slot for optional HDD
RTM-ATCA-7360-L	RTM for the ATCA-736X product series, 2X GbE, 2X SAS, 1X slot for optional HDD
ATCA7360-HDD1-SAS	147GB SAS HDD kit for the RTM-ATCA-7360. See Note 2
ATCA7360-HDD2-SAS	300GB SAS HDD kit for the RTM-ATCA-7360. See Note 2
ATCA7360-HDD4-SAS	600GB SAS HDD kit for the RTM-ATCA-7360. See Note 2
ATCA7360-HDD3-SATA	80GB SATA HDD (ext. temp.) kit for the RTM-ATCA-7360. See Note 2
RTM-ATCA-736X-DD	RTM for the ATCA-736X product series, 2X GbE, 2X slot for optional HDD
RTM-ATCA-736X-DD-300	RTM for the ATCA-736X product series, 2X GbE, 2X 147GB SAS HDD included
RTM-ATCA-736X-DD-600	RTM for the ATCA-736X product series, 2X GbE, 2X 300GB SAS HDD included
RTM-ATCA-736X-DD-1K2	RTM for the ATCA-736X product series, 2X GbE, 2X 600GB SAS HDD included
RTM-ATCA-7360-HDDKIT	Carrier and mounting kit for HDD or SSD devices used with RTM-ATCA-7360 or RTM-ATCA-7360-L (no disk included)
ATCA7360-MMOD-SATA1	32GB on-board solid state disk at SATA for ATCA-736X product series. See Note 3
ATCA7360-MMOD-SATA2	64GB on-board solid state disk at SATA for ATCA-736X product series. See Note 3
ATCA7360-MMOD-SATA3	120GB on-board solid state disk at SATA for ATCA-736X product series. See Note 3
ATCA7360-SFMMOD	Reset persistent memory, 16MB SRAM, 64MB flash for the ATCA-736X product series. See Note 3
RJ45-DSUB-ATCA	RJ-45 DSUB cable for the ATCA-7140, 7X50, 736X, 737X, 747X blades
SA-BBS-WR30-7360	CD - BBS SW and WR PNE 3.0 for ATCA-7360 and ATCA-7365. See Note 4

Note 1: No memory installed

Note 2: Optional carrier kit for RTM-ATCA-7360 and RTM-ATCA-7360-L

Note 3: Persistent memory and solid state disk mutually exclusive

Note 4: License for a single blade

Regulatory Compliance	
Item	Description
Designed to comply with NEBS,	Telcordia GR-63-CORE, NEBS Physical Protection
Level 3	Telcordia GR-1089-CORE, Electromagnetic Compatibility and Electrical Safety – Generic Criteria for Network Telecommunications Equipment. Equipment Type 2
Designed to comply with ETSI	ETSI Storage, EN 300 019-1-1, Class 1.2 equipment, Not Temperature Controlled Storage Locations
	ETSI Transportation, EN 300 019-1-2, Class 2.3 equipment, Public Transportation
	ETSI Operation, EN 300 019-1-3, Class 3.1(E) equipment, Temperature Controlled Locations
	ETSI EN 300 132-2 Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 2: Operated by direct current (dc)
	ETSI ETS 300 753, Equipment Engineering (EE); Acoustic noise emitted by telecommunications equipment
CE Conformity	Directive 2004/108/EC, Directive 2006/95/EC
EMC	ETSI EN 300 386 Electromagnetic compatibility and Radio spectrum Matters (ERM); telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements, Telecommunication equipment room (attended)
	CFR 47 FCC Part 15 Subpart B, Class A (US); FCC Part 15 - Radio Frequency Devices; Subpart B: Unintentional Radiators
	AS/NZS CISPR 22 (Australia/New Zealand), Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
	VCCI Class A (Japan), Voluntary Control Council for Interference by Information Technology Equipment
	CISPR 22 Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
	CISPR 24 Information technology equipment – Immunity characteristics – Limits and methods of measurement
Safety	Certified to UL/CSA 60950-1, EN 60950-1 and IEC 60950-1 CB Scheme
	Safety of information technology equipment, including electrical business equipment
Del IS/WEEE compliance	DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
RoHS/WEEE compliance	DIRECTIVE 2002/96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on waste electrical and electronic equipment (WEEE)
Interoperability	Designed to operate within a CP-TA B.4 system environment at full performance

SOLUTION SERVICES

Emerson Network Power provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh.

PICMG, AdvancedTCA, ATCA, AdvancedMC and the AdvancedTCA logo are trademarks of PICMG. Service Availability is a proprietary trademark used under license. Intel and Xeon are trademarks of Intel Corporation or its subsidiaries in the Unites States and other countries. Microsoft and Windows are registered trademarks of Microsoft Corporation. All other product or service names are the property of their respective owners.

This document identifies products, their specifications, and their characteristics, which may be suitable for certain applications. It does not constitute an offer to sell or a commitment of present or future availability, and should not be relied upon to state the terms and conditions, including warranties and disclaimers thereof, on which Emerson Network Power may sell products. A prospective buyer should exercise its own independent judgment to confirm the suitability of the products for particular applications. Emerson Network Power reserves the right to make changes, without notice, to any products or information herein which will, in its sole discretion, improve reliability, function, or design. Emerson Network Power does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent or other intellectual property rights or under others. This disclaimer extends to any prospective buyer, and it includes Emerson Network Power's licensee, licensee's transferees, and licensee's customers and users. Availability of some of the products and services described herein may be restricted in some locations.



Emerson Network Power

Offices: Tempe, AZ U.S.A. 1800 759 1107 or +1602 438 5720
Paris, France +33 160 92 31 20 • Munich, Germany +44 1509 236490 • Tel Aviv, Israel +972 9 9560361
Hong Kong +852 2176 3540 • Shanghai, China +86 21 3395 0289 • Tokyo, Japan +81 3 5403 2730 • Seoul, Korea +82 2 3483 1500

Emerson, Business-Critical Continuity and Emerson Network Power are trademarks of Emerson Electric Co. or one of its affiliated companies. ©2011 Emerson Electric Co.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Gate Drivers category:

Click to view products by Artesyn Embedded Technologies manufacturer:

Other Similar products are found below:

00028 00053P0231 8967380000 56956 CR7E-30DB-3.96E(72) 57.404.7355.5 LT4936 57.904.0755.0 5801-0903 5803-0901 5811-0902 5813-0901 58410 00576P0030 00581P0070 5882900001 00103P0020 00600P0005 00-9050-LRPP 00-9090-RDPP 5951900000 01-1003W-10/32-15 LTILA6E-1S-WH-RC-FN12VXCR1 0131700000 00-2240 LTP70N06 LVP640 0158-624-00 5J0-1000LG-SIL 020017-13 LY1D-2-5S-AC120 LY2-0-US-AC120 LY2-US-AC240 LY3-UA-DC24 00-5150 00576P0020 00600P0010 LZNQ2M-US-DC5 LZNQ2-US-DC12 LZP40N10 00-8196-RDPP 00-8274-RDPP 00-8275-RDNP 00-8609-RDPP 00-8722-RDPP 00-8728-WHPP 00-8869-RDPP 00-9051-RDPP 00-9091-LRPP 00-9291-RDPP