

### Features

- Two Intel® Xeon® processor E5-2600 v4 family (14C/28T)
- 16 memory sockets support DDR4-2133 REG/ECC VLP RDIMM up to 256 GB
- Intel® C612 PCH
- Single Intel® XL710-AM2 40GBASE-KR4 Fabric Interface Channels
- Intel® Communications Chipset 8950
- Support Intel® DPDK and Node Manager 3.0

**AdvancedTCA®**

### Specifications

#### CPU / Chipset / Memory

|         |                                                       |
|---------|-------------------------------------------------------|
| CPU     | 14-Core Intel® Xeon® E5-2600 v4                       |
| Chipset | Intel® C612 PCH                                       |
| Memory  | 16x DDR4-2133 240-pin VLP RDIMM sockets, up to 256 GB |

#### BIOS

|          |                                       |
|----------|---------------------------------------|
| Chip     | AMI BIOS on SPI flash memory          |
| Features | Intel® PXE pre-boot<br>Remote Console |

#### I/O Interfaces

|                 |                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Graphics        | Silicon Motion SM750, PCIe x1, up to 1920 x 1440 resolution                                                                                            |
| Ethernet        | Dual 10/100/1000BASE-T Base Interface channels<br>Dual Intel® XL710-AM2 40GBASE-KR4 Fabric Interface channels<br>Dual front panel 10GBase egress ports |
| Storage         | On-board bootable 32G mSATA flash (up to 256G)                                                                                                         |
| USB             | Three USB 2.0 ports on front panel                                                                                                                     |
| Front Panel I/O | VGA, USB1/2, LAN1/2, COM (mini-USB) 1/2                                                                                                                |

#### PICMG Standard

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| AdvancedTCA | PICMG 3.0 R3.0<br>PICMG 3.1 Ethernet Over PICMG 3.0, Option 9-KR |
|-------------|------------------------------------------------------------------|

#### Other Features

|                                |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| Packet Processing Acceleration | Single Intel® Communications Chipset 8950                                 |
| Operating Systems              | Windows Server 2012 R2, Red Hat Enterprise Linux 6, Intel® DPDK supported |

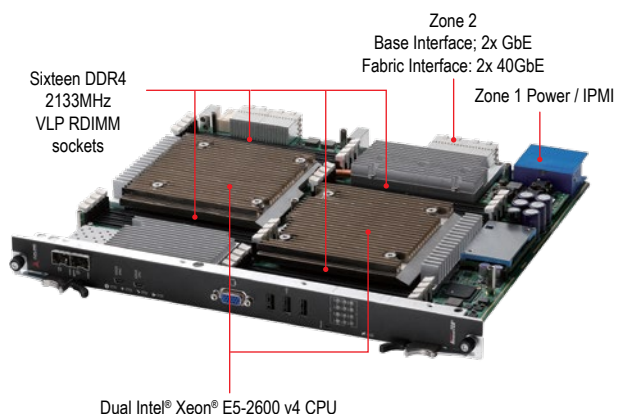
#### Mechanical and Environmental

|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| Form Factor       | PICMG 3.0 R3.0 AdvancedTCA                                                          |
| Dimension         | 322.25mm x 280mm x 6HP (L x W x H)                                                  |
| Weight            | 3.5KG                                                                               |
| Operating Temp.   | 0°C to +55°C                                                                        |
| Storage Temp.     | -40°C to +70°C                                                                      |
| Humidity          | 5% to 95%, non-condensing                                                           |
| Shock             | 20G peak-to-peak, 11ms duration, non-operation                                      |
| Vibration         | Non-operating: 1.88Grms, 5-500Hz each axis<br>Operating: 0.5Grms, 5-500Hz each axis |
| Power Consumption | 366W with E5-2658 V3 (105W)                                                         |
| Certification     | FCC, CE, NEBS Level 3 (design)                                                      |

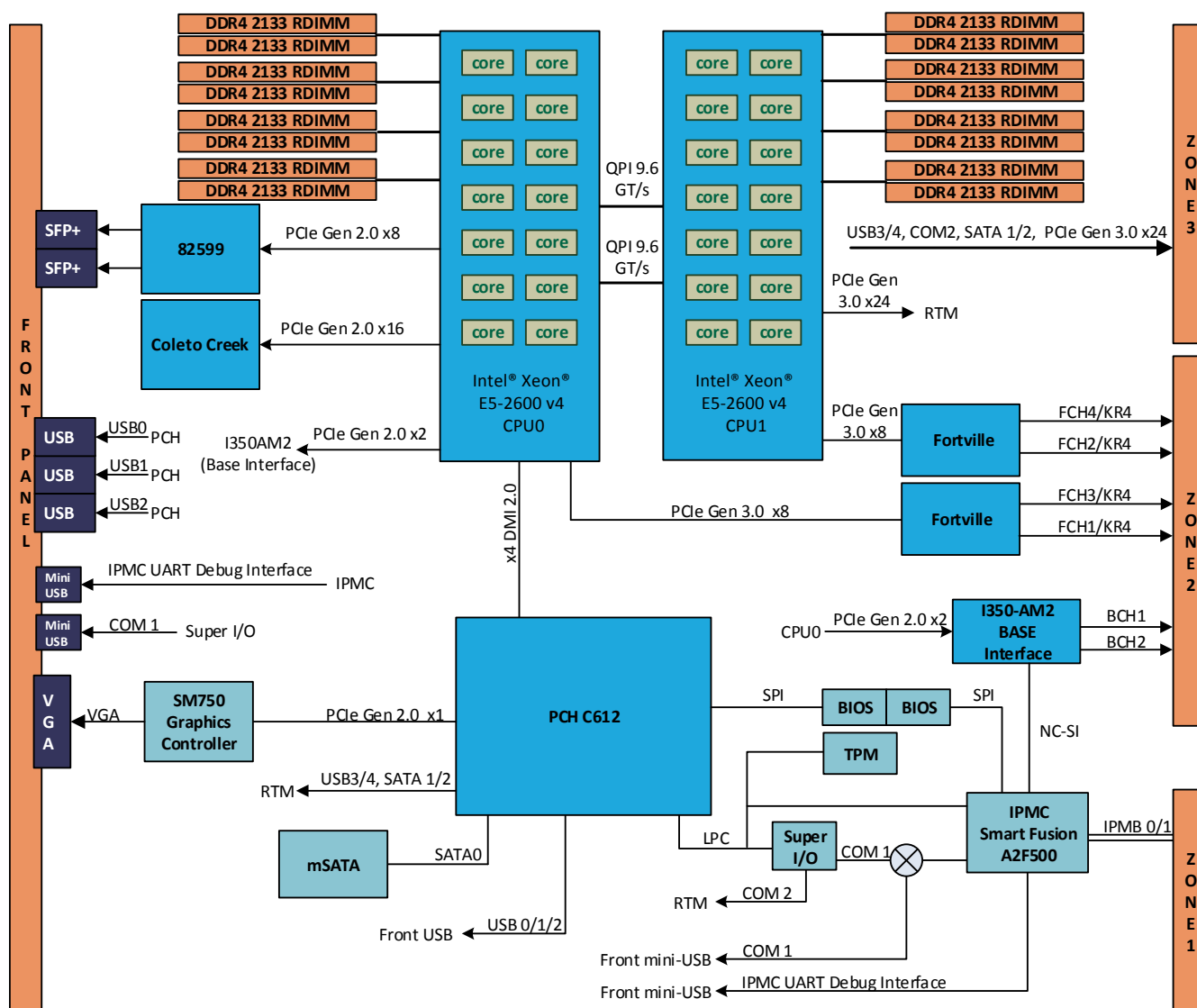
### Ordering Information

| Model Number | Description/Configuration                                                                      |
|--------------|------------------------------------------------------------------------------------------------|
| aTCA-9715    | Dual 14-core Intel® Xeon® E5-2658 v4 2.2GHz 40GbE processor blade, 4x DDR4-2133 VLP RDIMM 16GB |

## Mechanical Layout



## Functional Diagram



Note: All specifications are subject to change without further notice.