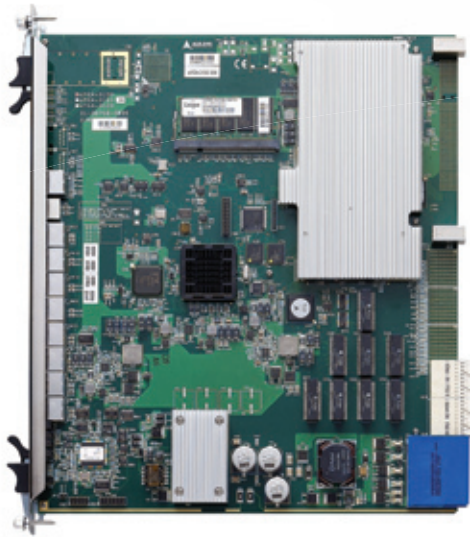


aTCA-3100

24/48-Port AdvancedTCA® Base/Fabric Switch Blade with 10GbE Uplink



Features

- 24 ports Gigabit Ethernet Base/ Fabric interface switch
- 10-Gigabit Ethernet XFP Uplink port
- VitesseR VSC7310 24-port GbE Switch-on-Chip
- Dynamic and static wired-speed Layer 2/3 switching
- Intel® 80219 600MHz control plane processor
- Front panel GbE management port and serial console

Specifications

Control Plane

| | |
|------------|---|
| CPU & FSB | Intel® 80219 XScale® 32-bit I/O processor, 600MHz |
| RAM | DDR-200 PC1600 SDRAM up to 1GByte 64+64MB on-board dual bootable AMDR S29GL512N flash memory |
| Bus | 32-bit/66MHz Processor Local Bus 64-bit/66MHz PCI Local Bus |
| Management | Front panel 10/100/1000BASE-T (RJ45) ShMC access 10/100/1000BASE-T port Front panel RS232 serial console (RJ11) |

Data Plane

| | |
|---------------|---|
| Switch Fabric | Vitesse® VSC7310 24-port GbE Switch-on-Chip |
| PHY | Vitesse® VSC8244 4-port 10/100/1000BASE-T PHY Vitesse® VSC8224 4-port 10/100/1000BASE-T and 1000BASE-X PHY Marvell® 88X2012 Alaska-X 10-Gigabit serial to XGMII transceiver |

PICMG 3.0 Interfaces (aTCA-3100/3110)

| | |
|--------------|--|
| Node Slot | 12x 10/100/1000BASE-T Base interface channels, for 14-slot systems |
| Egress | 8x 10/100/1000BASE-T front panel egress ports |
| ShMC Port | 2x 10/100BASE-TX ShMC ports compliant to PICMG® 3.0 R2.0 ECN001 |
| Inter-Switch | 1x 10/100/1000BASE-T inter-switch link |

PICMG 3.1 Interfaces (aTCA-3110)

| | |
|------------|--|
| Node Slots | 14x 1000BASE-BX Fabric interface channels, for 14-slot systems |
| Egress | 2x 10/100/1000BASE-T front panel egress ports |
| RTM | 8x Gigabit Ethernet RTM access ports |

Mechanical and Environmental

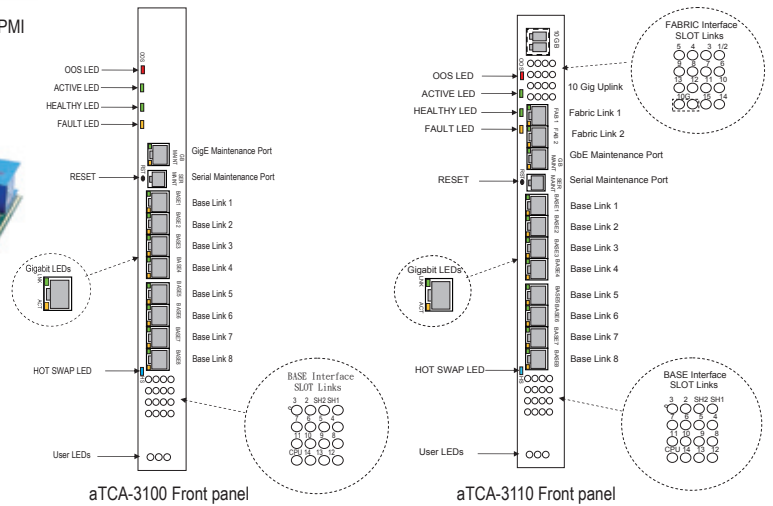
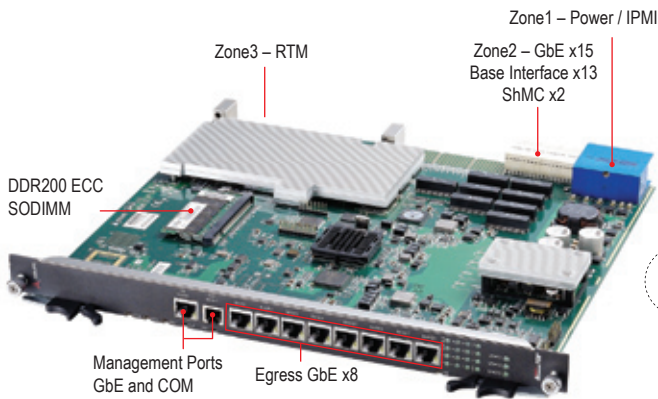
| | |
|-------------------|---|
| Form Factor | PICMG® 3.0 R2.0 ECN001 AdvancedTCA® |
| Dimensions | 322.25mm x 280mm x 6HP (L x W x H) |
| Weight | 2 kg / 4.4 lb |
| Operating Temp. | 0°C to 55°C |
| Storage Temp. | -20°C to 80°C |
| Humidity | 5% to 95%, non-condensed |
| Shock | 15G peak-to-peak, 11ms duration, non-operation |
| Vibration | Non-operation: 1.88Grms, 5-500Hz each axis Operation: 0.5Grms, 5-500Hz each axis |
| Power Consumption | aTCA-3110: 86W |
| Certifications | FCC, CE, CUL, NEBS Level 3 (design) |

Ordering Information

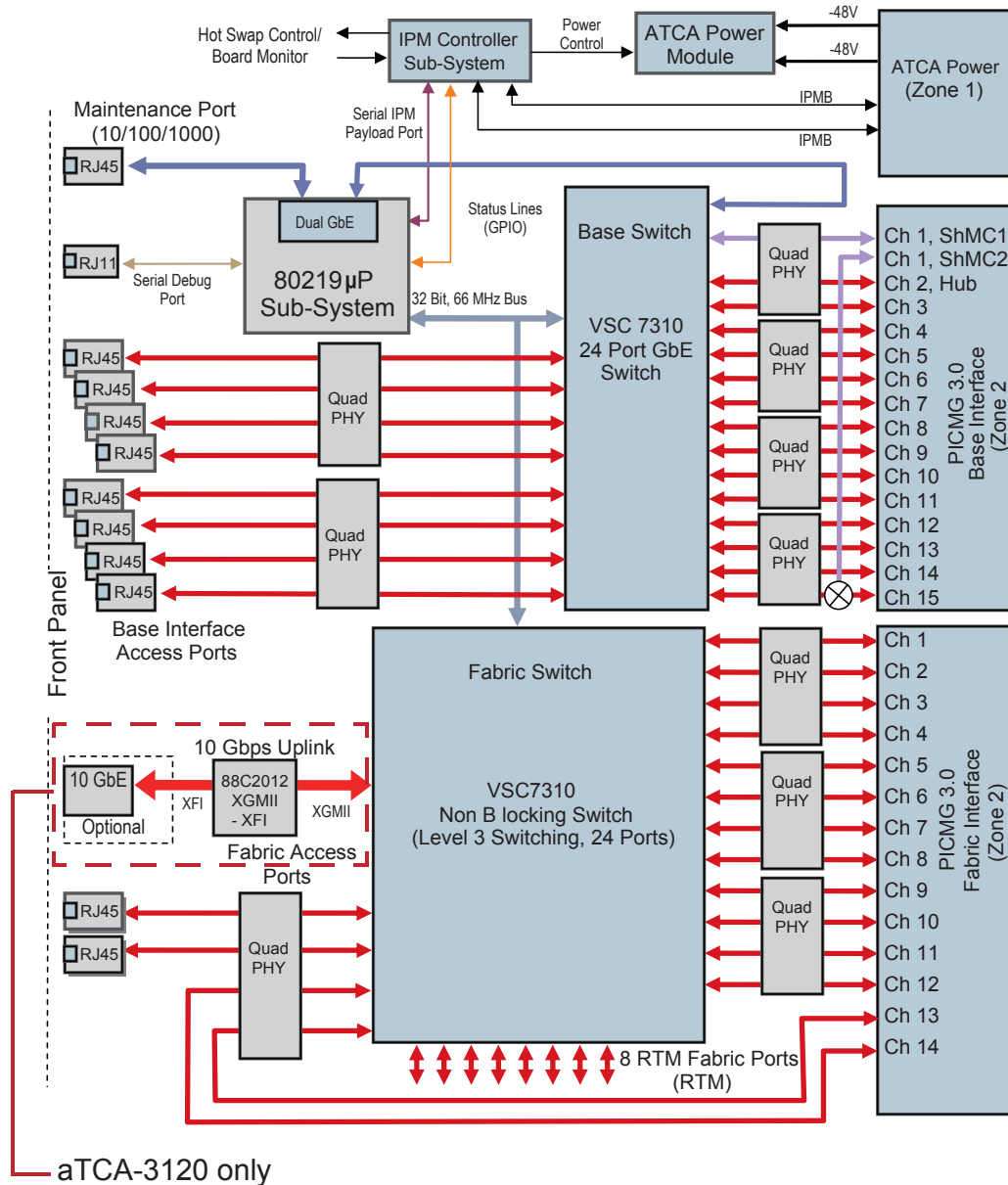
Modules

| Model Number | Description/Configuration |
|--------------|--|
| aTCA-3100 | PICMG® 3.0 24-port AdvancedTCA® Base Interface Switch |
| aTCA-3110 | PICMG® 3.1 option1 48-port AdvancedTCA® Fabric/Base Interface Switch |

Mechanical Layout



Functional Diagram



- 1 Advanced ATCA Processors
- 2 6U cPCI SBC
- 3 6U cPCI Platforms
- 4 3U cPCI SBC
- 5 3U cPCI Platforms
- 6 SBC & IMB
- 7 Industrial Chassis
- 8 Computer On Modules
- 9 Network Security Appliances
- 10 IPC Accessories
- 11 Amparo Extreme Rugged