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

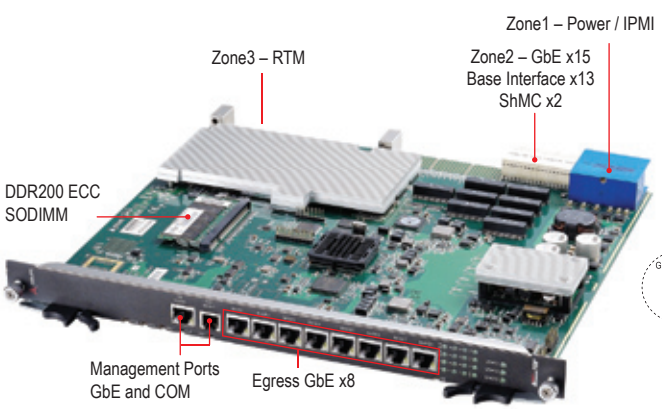
Form Factor	PICMG® 3.0 R2.0 ECN001 AdvancedTCA®
Dimensions	322.25mm x 280mm x 6HP (L x W x H)
Weight	2 kg / 4.4 lb
Operating Temp.	0˚C to 55˚C
Storage Temp.	-20˚C to 80˚C
Humidity	5% to 95%, non-condensed
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88Grms, 5-500Hz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

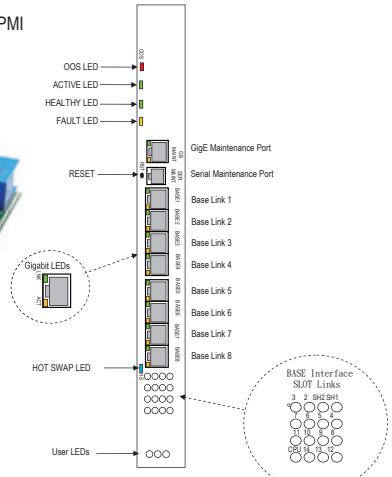
Ordering Information

Modules

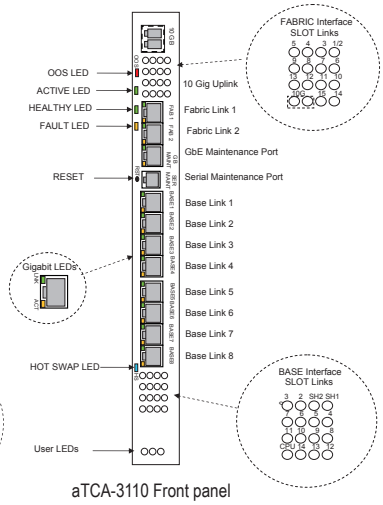
Model Number	Description/Configuration
aTCA-3100	PICMG® 3.0 24-port AdvancedTCA® Base Interface Switch
aTCA-3110	PICMG® 3.1 option1 48-port AdvancedTCA® Fabric/Base Interface Switch

Mechanical Layout



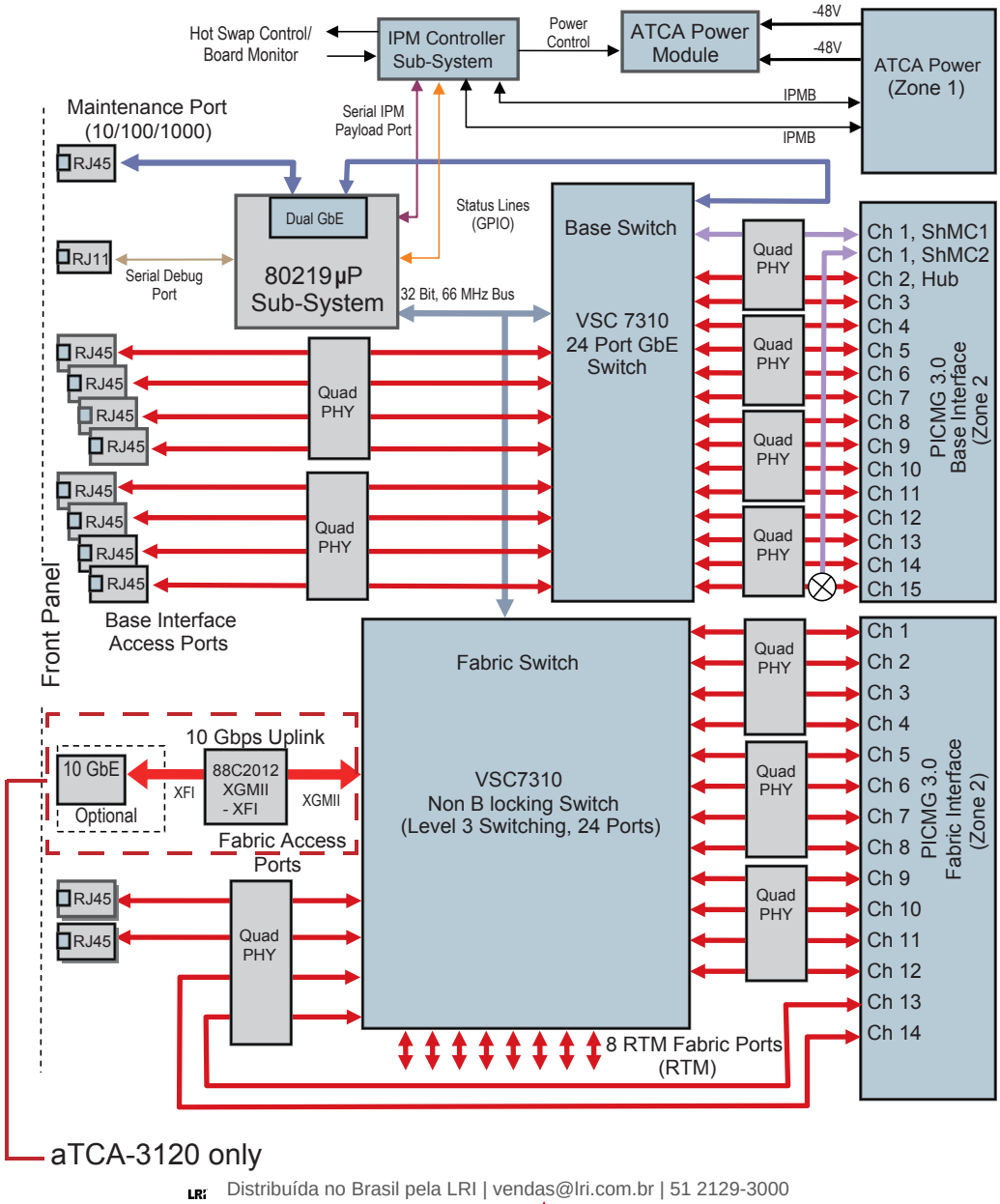


aTCA-3100 Front panel



aTCA-3110 Front panel

Functional Diagram



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