aTCA-3430

10 Gigabit Ethernet AdvancedTCA® Fabric Interface Switch Blade

Features

- Broadcom BCM56842 High-Capacity StrataXGS® Trident Ethernet Switch
- 320G Fabric switch capacity for 14/6 slot 10GbE chassis
- Freescale QorIQ P2040 (quad-core) @ 1.0GHz Control Plane Processor
- 12-port 10 Gigabit Ethernet SFP+ uplink on front panel
- ADLINK PacketManager with full L2/L3 functions

AdvancedTCA®



Specifications

Control Plane

CPU	Freescale QorIQ P2040 (quad-core) @ 1.0GHz
Memory	4GB DDR3 SDRAM on VLP Mini-DIMM sockets
Flash	Boot image: 2x 1MB (SROM, redundant)
	OS storage: 8GB microSD card
Management	Serial console port to Control Plane or IPMC through front panel RJ-45
	10/100/1000BASE-T, RJ-45 on front panel
	USB 2.0 on front panel

Data Plane

Fabric Switch	Broadcom BCM56842 320Gbps bandwidth multilayer switch
Base Switch	Broadcom BCM56334 24-port Gigabit Ethernet switch with 4-port 10GbE HiGig2 (iPss)

Fabric Interface

Channels	13x 10GbE Fabric Interface channels
Egress	10x 10GbE SFP+ on front panel

Base Interface

Channels	13x 10/100/1000BASE-T Base Interface channels
Egress	2x 10GbE SFP+, 6x 1GbE RJ-45 on front panel
ShMC Port	2x 10/100BASE-TX ShMC ports compliant with PICMG® 3.0 R2.0

IPMC

Chipset	Smart Fusion A2F500 MCU with Pigeon Point Systems firmware
IPMI	Dual redundant IPMB, IPMI v2.0-SOL support

Software support

Operating System	Broadcom SDK running under Open Linux 3.0
Blade/Shelf Management	CLI, Telnet, SNMP Agent, IPMI, Management API
ADLINK Packet-Manager	Layer 2/3 Fast Forwarding, Port Mirror, VLAN, Trunk, STP, ACL, Link Aggregation, Pipe, Static Routing, OSPFv2, RIP v1 & v2

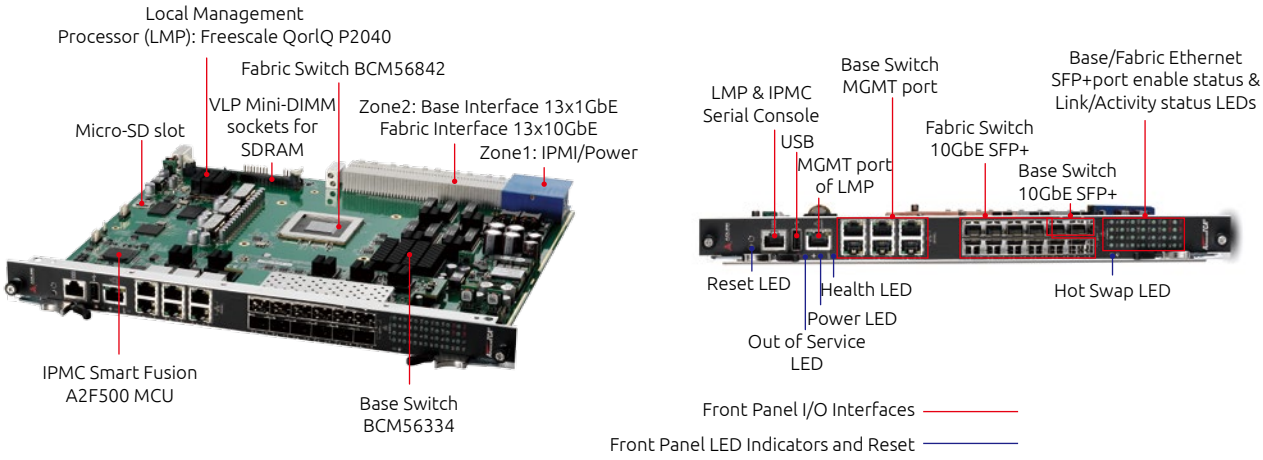
Mechanical and Environmental

Form Factor	PICMG® 3.0 R2.0 ECN002
Dimensions	322.25mm x 280mm x 6HP (L x W x H)
Weight	2.77 kg
Operating Temp.	+5˚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-operating
Vibration	Operating: 0.5Grms, 5-500Hz each axis Non-Operating: 1.88Grms, 5-500Hz each axis
Power Consumption	120W
Certifications	FCC, CE, UL, NEBS Level 3 (design)

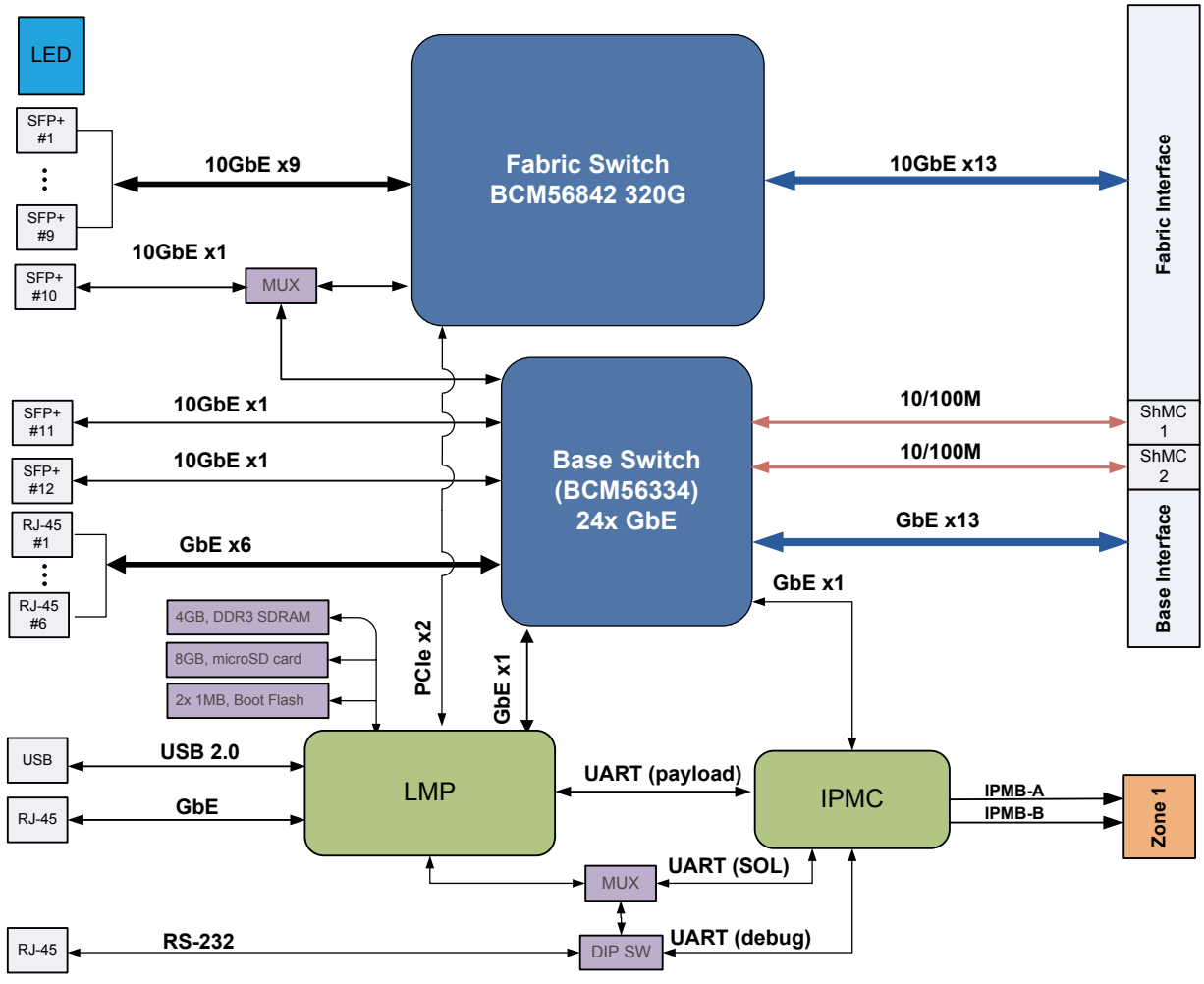
Ordering Information

Model Number	Description/Configuration
aTCA-3430	320G Bandwidth Fabric Switch
ADLINK PacktManager	Layer 2/3 Fast Forwarding, Port Mirror, VLAN, Trunk, STP, ACL, Link Aggregation, Pipe, Static Routing, OSPFv2 , RIP v1 & v2

Mechanical Layout



Functional Diagram



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