

TETA 32100 model: 32x100G



TETA 7210 model: 48x10G+6x40G

Convertible to 24x10G by splitter



Usage:

Data Center: ToR, Leaf, Spine
Service Provider: Core, Aggregation, Access
Enterprise: Stackable L2/L3 switch



High Capacity Switch Routers

TETA Company

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General overview

Full Layer-2, Layer-3 protocol stack support
Multiple Architectures & Customized Operating Systems by TETA
High Availability & Resiliency, Performance at Scale
Reliability, Manageability, Programmability & Extensibility
Modular Software
Break monolithic switch software into multiple containerized components
Deploy new features without impacting end users
In-service upgrades with zero downtime
Roll out updates securely and reliably across the fleet in hours instead of weeks
Early detection of failure, fault correlation, and automated recovery mechanisms without human intervention
Netbouncer and Everflow
Hybrid Legacy, SDN based Operating System
Support OpenFlow, PCEP, SR, link-state address-family for NG-SDN application
Utilize cloud-scale deep telemetry and fully automated failure mitigation
OpenStack Neutron ML2 Integration
Market-leading SDN controller Integration: OpenDaylight, ONOS, Ryu
RESTful APIs, NETCONF, RESTCONF, gNMI, Python for the API
Standard SNMP v2,v3, YANG Models
CLI, Linux standard shell, DevOps automation tool, Ansible Test Automation
Docker based software architecture
Fast/Warm/Cold Reboot Support
FEC control
CORD ready: telcos and the head-end for operators
Decouples Hardware & Software using SAI

Applications

Specific Use Cases:

- Hardware Firewall
- Network Policy Control
- DIP Packet Inspection
- Hardware Load-balancer
- Circuit Pusher
- Network as a service

Service provider, enterprise:

- Core layer
- Distribution layer
- Edge layer
- Access layer SDN network

Data centers:

- Leaf, Spine, ToR, EoR
- SDN, Fabric Network

Features

Data center

VxLAN/HW-VTEP
OpenFlow 1.3.4
CORD ready
802.1Qau
802.1Qaz
802.1Qbb
DCBX
EVB(802.1Qbg)
MLAG
802.3x

Security and quality

Security
Ingress/Egress/VTY/Control-plane ACL
AAA: RADIUS /TACACS+/Local
802.1x

QoS
COS
DSCP

DWRR and Strict scheduling
WRED-ECN
Traffic shape
Ingress policing, Egress shaping
PFC
CoPP

Layer 2

L2 MAC Address Table: 40K	FEC
Aging support	MLAG
Static MAC	LACP
Unicast/multicast traffic balance	32-way ECMP
Broadcast	Storm Control
Unknown multicast	VLAN
DLF (unknown unicast)	MSTP
Jumbo Frame	VRRP
LLDP	QinQ
SPAN/RSPAN	Chipset Shell

Management

Industrial standard CLI
CLI filtering, pagination and interface range
Text-based configuration
SSH v2
SFTP/SCP/TFTP
Multiple Images
Incremental software update
DHCP Client/Server/Relay
Docker based, Swarm/kubernetes compatible
Automation tools: Ansible/Chef/Python
New network applications extensibility
Distributed processing/Software mobility/ Database clustering
ASIC pipeline and buffers monitoring, packet tracing.
Syslog
Diagnostic dump
sFlow
NetFlow/IPFIX
EverFlow/telemetry
Chipset pipeline monitoring
SPAN / ERSPAN
Fast/Warm/Cold reboot
ZTP
Restful API

Layer 3

BFD	NHRP
Graceful restart	OSPFv2
BGP ipv4[labeled]	OSPFv3
(MPLS)	OSPF SR (MPLS)
BGP ipv6[labeled]	PIM-SM
(MPLS)	PIM-SSM
BGP vpv4 (MPLS)	PBR
BGP vpv6 (MPLS)	RIP
BGP LS (SDN)	RIPng
BGP flowspec (SDN)	SHARP
BGP evpn (SDN)	Route-map
Babel	Access-list
OpenFabric	Community-list
LDP (MPLS)	DHCP relay, DNS,
EIGRP	NTPv4
ISISv4	
ISISv6	

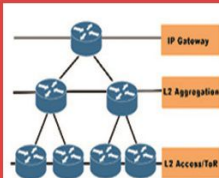
TETA32100 hardware specifications

ASIC	3.2Tbps Broadcom Tomahawk BCM56960 switching silicon
Forwarding performance	4400 Mpps: 32x100G
Processor	Intel Atom 2558 processor (4 core)
RAM	8GB DDR3
HDD	64GB M.2 SATA SSD
Forwarding table	UFT (Unified Forwarding Table)
Latency	less than 500 ns (PHY-less)
Hardware accelerators	VXLAN/NVGRE/GENEVE acceleration
DCB features	802.1Qau, 802.1Qaz, 802.1Qbb, DCBX, EVB(802.1Qbg), MLAG, 32-way ECMP
Power supply	Redundant 1+1 power, DC/AC power option available
Cooling	Redundant N+1 cooling
MAC address table size	40960
ARP table size	8192
Route table size	128k

TETA7210 hardware specifications

ASIC	720Gbps Broadcom Trident2 BCM56854 switching silicon
Forwarding performance	1071 Mpps: 48x10G + 6x40G
Processor	Intel Atom 2558 (4 core)
RAM	8GB DDR3
HDD	64GB M.2 SATA SSD
Forwarding table	UFT (Unified Forwarding Table)
Latency	less than 700 ns (PHY-less)
Hardware accelerators	Hardware VXLAN/NVGRE acceleration
DCB features	802.1Qau, 802.1Qaz, 802.1Qbb, DCBX, EVB(802.1Qbg), MLAG, 32-way ECMP
Power supply	Redundant 1+1 power, DC/AC power option available
Cooling	Redundant N+1 cooling
MAC address table size	32768
ARP table size	16384
Route table size	384k

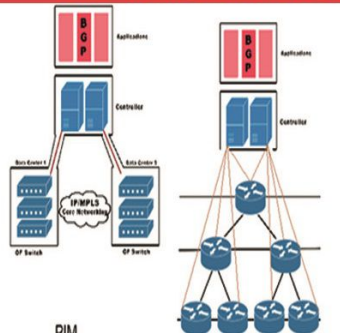
Traditional



Features:

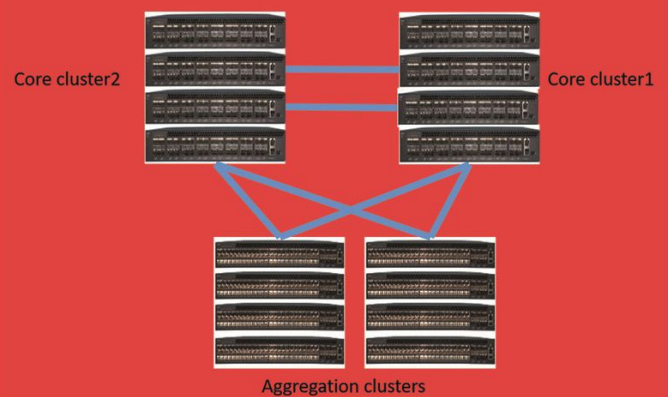
LLDP
Link Aggregation
VLAN
Spanning-tree
Storm Control
IGMP Snooping
Dual-Stack (IPv4/IPv6)
QoS
Multi-VRF Routing (BGP/OSPF/ISIS)

SDN Next-Generation SDN

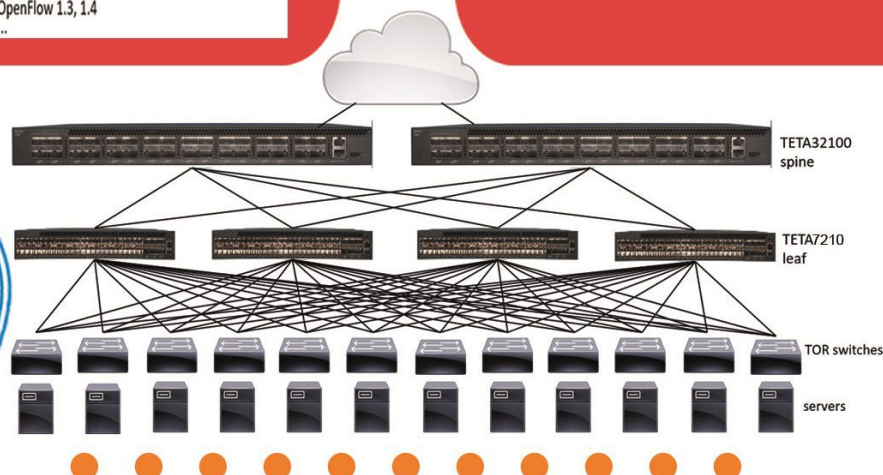


PIM
Security
Management
VXLAN
NVGRE
Fabric Path
MPLS
OpenFlow 1.3, 1.4
...

Clustered Architecture



CLOS Network Architecture



Configuration and management tools

Ansible Puppet Chef 1st party Telemetry

Network applications

More apps SNMP BGP DHCP IPv6

Base

Database Platform Quagga LLDP
SWSS Utility RedisDB SYNCD

Open Compute Project (OCP) software components

Third party software components

Bring your own custom software components
010101
101010
010101

Architecture