

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



TETA

شرکت تحقیق و توسعه ارتباط
(سهامی خاص)

سوئیچ/روترهای

پر ظرفیت

شرکت تتا

تهران - خیابان گاندی جنوبی
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ویژگی‌های کلیدی

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

Specific Use Cases

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

کاربردها در کریر و ارائه دهنده سرویس
طراحی نسل قدیم: لایه هسته، لایه توزیع،
لایه لبه و لایه دسترسی
طراحی نوین بر مبنای SDN

کاربردها در مراکز داده
Leaf, Spine, ToR
طراحی نسل قدیم / بر مبنای SDN

کاربردها در سازمان‌های بزرگ
سوئیچ‌های مرکزی

کاربردها

امکانات

قابلیت‌های نرم افزاری مدیریت

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

قابلیت‌های اختصاصی مرکز داده

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

قابلیت‌های امنیت و کیفیت

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

قابلیت‌های سوییچ/روتر لایه 3 (packet forwarding)

BFD	NHRP
Graceful restart	OSPFv2
BGP ipv4[labeled] (MPLS)	OSPFv3
BGP ipv6[labeled] (MPLS)	OSPF SR (MPLS)
BGP vpnv4 (MPLS)	PIM-SM
BGP vpnv6 (MPLS)	PIM-SSM
BGP LS (SDN)	PBR
BGP flowspec (SDN)	RIP
BGP evpn (SDN)	RIPng
Babel	SHARP
OpenFabric	Route-map
LDP (MPLS)	Access-list
EIGRP	Community-list
ISISv4	DHCP relay, DNS,
ISISv6	NTPv4

قابلیت‌های لایه 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

TETA32100 مشخصات سخت افزاری سونیج

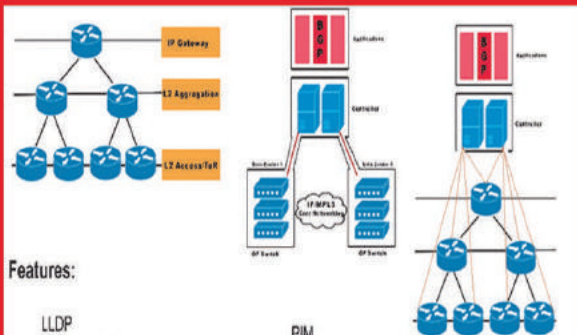
ASIC	3.2Tbps Broadcom Tomahawk BCM56960 switching silicon
Forwarding performance	4400 Mpps: 32x100G
Processor	Intel Atom 2558 processor (4 core)
RAM	8GB DDR3
HDD	64GB M.2 SATA SSD
Forwarding table	UFT (Unified Forwarding Table)
Latency	less than 500 ns (PHY-less)
Hardware accelerators	VXLAN/NVGRE/GENEVE 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 مشخصات سخت افزاری سونیج

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

SDN Next-Generation SDN

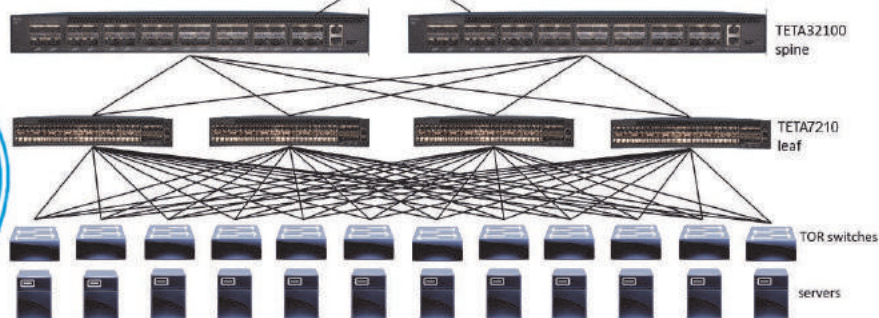
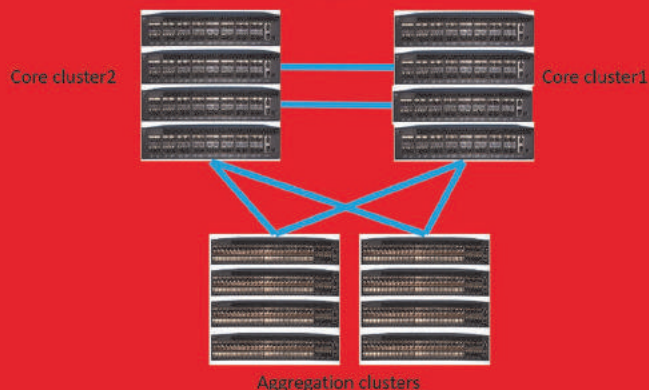


Features:

LLDP
Link Aggregation
VLAN
Spanning-tree
Storm Control
IGMP Snooping
Dual-Stack (IPv4/V6)
QoS
Multi-VRF Routing (BGP/OSPF/ISIS)

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

نمونه‌ای از جایگشت فیزیکی در شبکه‌ی اپراتورها با استفاده از معماری سلسله مراتبی



نمونه‌ای از جایگشت فیزیکی در مرکز داده با همبندی CLOS

Configuration and management tools



Network applications



Base



معماری