



KORBOX PERUN to wysokiej jakości przełącznik szkieletowy

48 * SFP+ i 6 * 40G QSFP z podwójnym zasilaniem.

Pełne wyposażenie licencyjne (bez ograniczeń na ilość vlanów, PIMów czy protokołów) układu Broadcom Trident 2 720 Gbps, 1050 Mpps.

Dodatkowo wbudowany system operacyjny ICOS ATOM/ARM 8 GB RAM 64 GB SSD
- możliwość uruchamiania własnych skryptów.

Dane techniczne

Protokoły:

RLACP, MLAG, CiscoEtherChannel, IGMP v3, QinQ, IPv6 dual stack, QoS, BGP, OSPF, ECMP, MLD, DVMRP, PIM-DM, PIM-SM, VRRP

Możliwości SDK układu

Broadcom Trident 2:

Layer 2 features

L2 MAC address table: 288K

VLAN:

* IEEE 802.1Q * Port-Based
* Private VLAN * Voice VLAN

IGMP Snooping:

* IGMP Snooping v1/v2/v3
* IGMP v1/v2 querier support
* IGMP Immediate Leave
* MLD Snooping
* Jumbo frame
* IEEE 802.3x Flow Control
* Q-in-Q

Proponowana platforma dla KIX2:

VXLAN, NVGRE, enkapsulacja MPLS

Storm Control:

* Broadcast * Unknown Multicast
* DLF (Unknown Unicast)

Spanning Tree:

* IEEE 802.1D * IEEE 802.1w
* IEEE 802.1s * Auto Edge
* BPDU Filter/Guard * Loop Guard
* TCN Guard * Root Guard
* Spanning Tree Fast Forwarding
* Edge port (same as Fast Forwarding)

Link aggregation:

* 802.3ad with LACP
* Cisco EtherChannel
* Max number of group: 8
* Unicast/Multicast traffic balance
* Virtual Port Channel (MLAG)

QoS features

* Number of priority queue: 8
* Scheduling:
** WRR
** Strict priority
** Hybrid (WRR+Strict priority)
* CoS:
** 802.1p-based CoS
** IP DSCP based CoS
** IP TOS Precedence based CoS
* DiffServ:
** 32 classes
** 13 rules per class
** No. class in policy: 64
** No. policy in class: 28
* Auto VoIP

Data Center

* ONIE enabled boot loader
* FIP snooping
* Congestion Notification (CN)
* ETS
* PFC
* DCBX for PFC (CEE v1.0)
* DCBX for ETS (CEE v1.0)
* OpenFlow 1.3
* OpEN API
* Puppet/Chef support
* Production quality RESTful API
* Port locator, dynamic topology map
and prescriptive topology mapping
* VXLAN
* NVGRE

IPv6

- * V4/V6 dual stack
- * ICMPv6
- * ICMPv6 redirect
- * IPv6 Path MTU Discovery
- * IPv6 Neighbor Discovery
- * Stateless Autoconfiguration
- * Manual Configuration
- * DHCPv6
- * SNMP over IPv6
- * HTTP over IPv6
- * SSH over IPv6
- * IPv6 Telnet support
- * IPv6 DNS resolver
- * IPv6 RADIUS support
- * IPv6 TACACS+ support
- * IPv6 Syslog support
- * IPv6 SNTP support
- * IPv6 TFTP support
- * Remote IPv6 ping

Management

- * Standard Linux shell tools
- * Industry standard CLI
- * CLI filtering
- * Telnet/SSH
- * Software/configuration upload/download using TFTP/XMODEM/HTTP/FTP/SCP/SFTP
- * Dual image
- * SNMP v1/v2c/v3
- * RMON 1,2,3,9 groups
- * BOOTP client/relay
- * DHCP:
 - ** Client
 - ** Server
 - ** Relay
 - ** L2 option 82 relay
 - ** L3 option 82 relay
- * Event log
- * DNS client
- * Utility: remote ping, traceroute
- * SNTP v4
- * LLDP: 802.1AB, 802.MED
- * CDP
- * UDLD
- * Port mirroring:
 - ** SPAN: one-to-one, many-to-one
 - ** SPAN with ACL filter
 - ** SPAN with VLAN
 - ** RSPAN
- * sFlow v5
- * Cable test
- * Email alerting
- * Auto install
- * RESTCONF interface
- * NetSNMP

Layer 3 Features

- * Number of IP interfaces: 128
- * Multinetting/CIDR
- * IP ARP
- * Local proxy ARP
- * Static route
- * BGP v4/v6:
 - ** RFC4893
- * Virtual routing and forwarding (VRF) awareness in BGP:
 - ** BGP extended communities
 - ** BGP dynamic neighbors
- * Multicast:
 - ** Multicast groups
 - ** MLD v1/v2
 - ** PIM-DM v4/v6
 - ** IGMP proxy
- * VRRP
- * Routes:
 - ** IPv4
 - ** ARP entry
 - ** IP IGMP/MLD
 - ** PIM-SM/DM v4/v6
- * Source IP configuration
- * Policy-based routing (PBR)
- * IPv6 Tunneling
- * IPv6 Loopback
- * DHCPv6 relay* DHCPv6 server

- * OSFP v2/v3
- * /31 subnet support
- * Proxy ARP
- * IRDP
- * ECMP

- ** BGP route leaking

- ** IGMP v1/v2/v3
- ** DVMRP
- ** PIM-SM v4/v6

- * Loopback

- ** IPv6
- ** ND entries
- ** DVMRP

Security

- * Static/Dynamic Port Security (MAC-based)
- * 802.1x:
 - ** Port based
 - ** Guest VLAN
 - ** VLAN assignmnet
- * ACL:
 - ** L2: MAC SA/DA, CoS, EtherType
 - ** L3: IPv4 SA/DA, subnet based
 - ** L3: IPv6 SA/DA, flow-label, DSCP
 - ** L4: TCP/UDP port
 - ** Time-based ACL
 - ** ACL counters
- * RADIUS:
 - ** Authentication
- * TACACS+:
 - ** Authentication
- * HTTPS & SSL
- * User authentication:
 - ** Local
 - ** RADIUS/TACACS+
 - ** AAA
- * DoS control
- * MAC filter
- * IP Source Guard
- * Dynamic ARP inspection
- * DHCP snooping
- * Control Plane Policy (CoPP)

- ** MAC based
- ** QoS assignment
- ** Unauthenticated VLAN

- ** Accounting

- * SSH 1.5/2.0