

ZX4600 with OpenArchitect Switch Management



specifications at-a-glance

Features and implementations of IEEE & RFC specifications available in
OpenArchitect 2.2 on the ZX4600

General

6U PICMG 2.0 CompactPCI
8 Gigabit Ethernet ports**
12 Million Packets/sec
Stackable to 30 switches
4 Class of Service queues
63 VLANs in Window of 4,096
512KB packet buffer memory
8K L2 Address Table
2K L3 Address Table
128 L2-L7 Rules Table
HotSwap
Trunking
Motorola MPC8245 PowerPC processor @250 MHz
Temperature Sensor
IPMI power and reset control
Front-panel RS-232 port (RJ-45)
Per-port LED for Link/Activity
Internal Fault LED
External Fault LED
CLK LED

Memory

Host Memory	64MB SDRAM
Packet Buffer	512KB Internal
Storage	32MB Flash ROM
Boot	512KB Flash ROM

Protocols and Standards

General

TCP (RFC 793)
IP (RFC 791)
UDP (RFC 768)
ARP (RFC 826)
RARP (RFC 903)
ICMP (RFC 792)
ICMP Router Discovery (RFC1256)
Router Requirements (RFC1812)

Network Services

FTP (RFC 959)
TFTP (RFC 783)
DHCP Server
DHCP Client
DHCP Relay
NFS Client
Network Time Protocol-NTP
Network Address Translation-NAT (RFC1631)*
Additional protocols on request

VRRP (Virtual Router Redundancy Protocol)

VRRP (RFC 2338)

* Implemented on the CPU

RIP (Routing Information Protocol)

RIPv1 (RFC1058)
RIPv2 (RFC1388)

OSPF (Open Shortest Path First):

OSPF v2 (RFC1583)
OSPF-BGP Interaction - (RFC1403)

BGP (Border Gateway Protocol):

EGP (RFC 904)
BGP-3 (RFC1267)
Default Route Advertisement (RFC1397)
BGP Route Reflection (RFC1966)
BGP-OSPF Interaction (RFC1403)

IP Multicast

IGMP Snooping
IGMPv2 (RFC2236)*
DVMRP (IETF draft)*

Class of Service

IEEE 802.1p Class of Service (COS)
-4 service queues on switch fabric
-scheduling options
TOS - Type of Service (RFC1349)
Architecture for Differentiated Services (RFC2475)
DS Field (RFC2475)

Filtering

Packet Header Filtering
Powerful Rules Tool - iptables

IEEE Compliance

IEEE 802.1d Spanning Tree
IEEE 802.1p Traffic Class/Multicast
IEEE 802.1Q VLAN
IEEE 802.1x Flow Control
IEEE 802.3z Gigabit Ethernet
IEEE 802.3u MIIM Interface

PICMG Compliance

PICMG 2.0 CompactPCI
PICMG 2.1 Full HotSwap support
PICMG 2.9 IPMI Controller

Management

SNMP (Simple Network Management Protocol)

SNMPv1 (RFC 1157)
SNMPv2 (RFC 1907)
SNMPv3 (RFC 2271)
MIB II (RFC1213)
MIB II Interface updates (RFC2863)
Defining Traps for SNMP (RFC1215)

Management (continued)

RIPv2 MIB (RFC1724)
OSPFv2 MIB (RFC1850)
BGPv3 MIB (RFC1269)
SMUX MIB (RFC1227)
VLAN Extensions MIB (RFC2674)
Bridge MIB (RFC1493)
VRRP MIB (RFC2787)
Remote Network Monitoring MIB (RFC2819)
IPv4 Multicast Routing MIB (RFC2932)
IP Forwarding Table MIB (RFC2096)
Textual Conventions for SMIPv2 (RFC2579)
Ethernet-Like MIB (RFC2665)
Differentiated Service MIB (IETF Draft)
COPS (Common Open Policy Service)
COPS (RFC 2748)
COPS Policy Provisioning COPS-PR (RFC3084)
WEB
Web Server: HTTP/1.1 (RFC2616)
Management Interface (HTML and CGI source)
Command Line Interface
Telnet

Physical and Environmental

ZX4600 Dimensions: 160mm x 233.5mm (6U)
Power Consumption: 24.2W maximum
Humidity: maximum 90% non-condensing

The ZX4600 has not yet completed Regulatory and Safety testing. ZX4600 was engineered to pass the following Regulatory and Safety specifications.

Regulatory

EMC/EMI
AS/NZS 3548 1997, Class A
CNS 13438 1997 (EN55022/CISPR22), Class A
EN55022: 1998, Class AEN55024: 1998
FCC CFR 47, Part 15 Subpart B - 1998, Class A
ICES-003 Issue 3, Class A
VCCI (ANSI C63.4-1992/CISPR22-1997), Class A

Safety

CAN/CSA 22.2 No. 950-95

IEC 950 (1991) Second Edition with Amdts. No. 1 (1992), No. 2 (1993), No. 3 (1995) and No. 4 (1996)

IEC 60950 (1991) Second Edition with Amdts. No.1 (1992), No. 2 (1993), No. 3 (1995) and No. 4 (1996)

EN60950 (1992) with Amdts. 1, 2, 3, 4 and 11 including National Differences EN45001

UL1950, 3rd Edition (1995)



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