DZS | EVERY CONNECTION MATTERS™

DATA SHEET

EXK-V6824XG L2/L3 Aggregation Switch

Features

- 480Gbps switching capacity
- End-to-end 10GbE data center solution
- Support dual power supplies for redundancy
- Ultra low latency
- Medium density 24-port 10GbE switch
- Management via SNMPv1/v2/v3 and RMON
- User password protected system management
- Data secured through SSH
- Enhanced security through RADIUS and TACACS+
- Remote network management
- User-friendly CLI via console or telnet
- L2/L3/L4 H/W based ACL

Overview

The DZS EXK-V6824XG is a 10GbE switch is purpose-built for demanding low-latency data center environments and for ISP FTTx broadband aggregation networks. The deployment of this 10GbE capable switch significantly improves server utilization and consequently, data center power efficiency.

The EXK-V6824XG offers 24 10 Gigabit Ethernet ports (SFP+ / SFP). These 10GbE ports provide flexible low-latency high-bandwidth switching, filtering, and traffic management, and large data center grade buffers keep traffic moving.

The EXK-V6824XG supports both AC and DC modular power supply modules (PSUs) that can be configured redundantly, and dual fan modules provide exceptional cooling performance ensuring enhanced system reliability and resiliency.

Specifications

WEIGHT & DIMENSIONS

- 13lbs (5.99kg)
- 17.3" x 1.73" x 11" (440 × 44 x 280 mm)

POWER

- AC : 100~240VAC (50/60Hz)
- DC : -20~-60VDC
- Max Power Consumption: 103.7W

INTERFACES

- Service Port: 24 Port 10GbE (SFP+) or 1G(SFP)
- Network Port: 4 Port 100/1000M Base-X, 10GBase-R (SFP/SFP+)
- Console Port: 1 Port (RJ-45)
- Management Port: 1 Port 10/100/1000Base-T (RJ-45)

STANDARDS SUPPORT

- Layer 2
  - Standard Ethernet bridging
  - up to 288K MAC entries using UFT (Unified Forwarding Table)
  - 4K active VLANs for 802.1q tagged frame
  - Port-based VLAN
  - VLAN translation on ingress and egress.
  - Spanning tree (STP , RSTP, MSTP , PVRSTP)
  - Link aggregation (Static and LACP)
  - Jumbo frame 12KB
  - 802.1q /Q-in-Q tunneling
  - MAC filter, Max-host, loop detection
  - ARP/GVRP
- L3 Function
  - 128K entries for IPv4 and 64K entries for IPv6
  - ECMP routing
  - RIP, OSPF, BGP, VRRP
  - VRF
- IPv6
  - IPv6 addressing: global address, link local address, stateless auto configure, DAD
  - IPv6 Dynamic Routing : OSPFv3, BGP4+
  - IPv6 Static routing
  - IPv4/v6 dual stack
  - DHCPv6
- Multicast

- IGMPv1/v2/v3
- 5K L2 / 5K L3 multicast entries
- IGMP snooping
- PIM-SM/SSM
- IGMP proxy

QOS

- Smart Buffer
- Traffic scheduling (SP/WRR/DRR)
- 8 queues support per port
- COS, DSCP/TOS marking/remarking
- Port rate limit with the ingress/egress and egress shaping
- Conditional rate limiting
- Queue mapping according to ingress port, MAC, 802.1q, 802.1p, T oS/DSCP, IP SA/DA, TCP/UDP
- Access control lists based on port, MAC address, Ether type, IP SA/DA, IP multicast address, TCP/UDP

SECURITY

- 802.1x MAC/port based authentication
- Storm control for broadcast, multicast and unknown unicast packets
- DoS protection
- Outband management
- IP source guard
- Secure Shell (SSH)
- RADIUS/Tacacs+ Authentication
- MAC Filtering
- ARP Inspection/ND Inspection

MANAGEMENT

- Serial/Telnet (CLI)
- SNMPv1/v2/v3
- RMON
- Syslog
- Port mirroring/VLAN mirroring
- Remote reset

OPERATING REQUIREMENTS

- Operating Temp: 32~122°F (0~50°C)
- Storage Temp: -40~158°F (-40~70°C)
- Humidity: 5 to 95% (non-condensing)

Ordering Information

CHASSIS OFFERINGS

MODEL	DESCRIPTION
EXK-V6824XG-SAC-NA	24X10G (SFP/SFP+), 1U L2/3 SWITCH, FANS, 0-50C, 1-AC PSU NA (REQ XCVRS)
EXK-V6824XG-SAC-EU	24X10G (SFP/SFP+), 1U L2/3 SWITCH, FANS, 0-50C, 1-AC PSU EU (REQ XCVRS)
EXK-V6824XG-SAC-UK	24X10G (SFP/SFP+), 1U L2/3 SWITCH, FANS, 0-50C, 1-AC PSU UK (REQ XCVRS)
EXK-V6824XG-SDC	24X10G (SFP/SFP+), 1U L2/3 SWITCH, FANS, 0-50C, 1-DC PSU (REQ XCVRS)

POWER SUPPLY REDUNDANCY OPTIONS

MODEL	DESCRIPTION
EXK-V6824XG-PSUMOD-AC-NA	V6824XG PSU MODULE, 100-240VAC W/NA PLUG
EXK-V6824XG-PSUMOD-AC-EU	V6824XG PSU MODULE, 100-240VAC W/EU PLUG
EXK-V6824XG-PSUMOD-AC-UK	V6824XG PSU MODULE, 100-240VAC W/UK PLUG

ACCESSORIES & SPARES

MODEL	DESCRIPTION
EXK-V6824XG	24X10G (SFP/SFP+), 1U L2/3 SWITCH, NO FANS, 0-50C, NO PSUS (REQ XCVRS)
EXK-V6824XG-FAN-ASSEMBLY	V6824XG FAN ASSY
EXK-V6824XG-PSUMOD-BLANK	V6824XG PSU MODULE BLANK

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