

ZEQUO 2300/2310

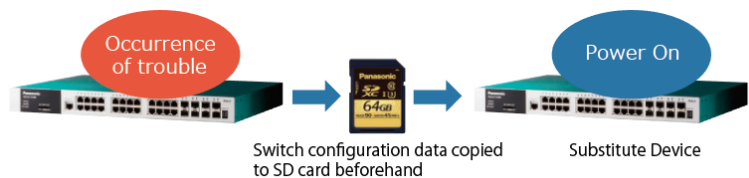
Gigabit Managed Switches

ZEQUO 2300/2310 are fully managed high-performing Layer 2 Switches.

Rapid switch failure recovery

-Boot from a configuration file saved on an SD card

Prompt system recovery is possible without technical knowledge of network switch or PC.
There is no need for configuration tools to set up the replacement switch.



Manageable

- Industry-standard CLI
- Web-based GUI

Appropriate setting method can be selected according to the environment and demand

Ideal for Video surveillance environments

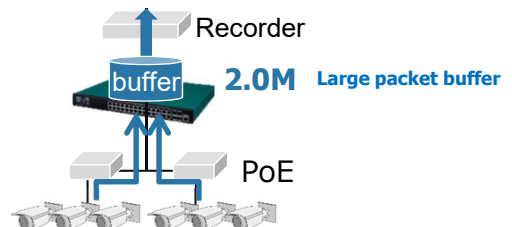
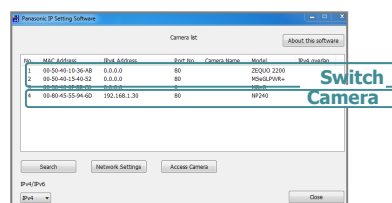
-Large buffer 2.0M

Packet buffer 2.0M Byte/unit. Frames are not dropped even if images from many cameras are aggregated.

-IP address Easy Setup (i-pro & SW)

The IP addresses for both the switches and cameras can be set up simultaneously using Easy IP Address Setup Software.

IP address Easy Setup



Lineup	
ZEQUO 2300 (PN26241K)	
	
10/100/1000T ×28 (24 + 4 combo) SFP × 4	
ZEQUO 2310 (PN26161K)	
	
10/100/1000T ×20 (16 + 4 combo) SFP × 4	

Key Features

Original

- **Boot from a configuration file saved on an SD card**
- **IP address Easy Setup**
- **Loop detection breaking and History Functions**

If a loop is detected, the relevant ports are shut down to prevent disruption from looped connections. LEDs indicate ports for which loops have occurred within the past 3 days.

• Spanning Tree

- ✓ IEEE 802.1D
Spanning Tree Protocol,
- ✓ IEEE 802.1s
Multiple Spanning Tree Protocol

• VLAN

- ✓ IEEE802.1Q
- ✓ Private VLAN
- ✓ Guest VLAN
- ✓ MAC-based VLAN
- ✓ Subnet based VLAN
- ✓ Number of VLAN registrations: 4,094
(including default)
- ✓ Asymmetric VLAN
- ✓ Voice VLAN
- ✓ Protocol-based VLAN
- ✓ Dynamic VLAN

• Port Monitoring

- ✓ Traffic of the target port can be copied to the specified port and transmitted.
(Two or more target ports can be specified.)
- ✓ RSPAN

• Multicast

- ✓ IGMP Snooping (IGMP v1/v2/v3)
Maximum group number : 1,024
Number of Static registrations: 128
- ✓ MLD snooping (MLDv2)
Maximum group number : 1,024
Number of Static registrations: 128

• QoS

- ✓ IEEE802.1p
8 levels of Priority Queue
- ✓ Scheduling Method:
 - Strict Priority Queuing
(SPQ: Strict priority queuing)
 - Weighted Round Robin
(WRR: Weighted round robin)
 - Weighted Deficit Round Robin
(WDRR: Weighted Deficit Round Robin)

• Authentication Function

- ✓ IEEE802.1X
Port-based authentication
- ✓ Mac-based authentication using IEEE 802.1X
- ✓ Dynamic VLAN function using IEEE 802.1X
- ✓ Guest VLAN using IEEE 802.1X
(EAP-MD5/TLS/PEAP Authentication method)
- ✓ IEEE802.1X supplicant
- ✓ Force Authorized MAC Address Configuration
- ✓ EAP Packet Forwarding function
(Enable/disable EAP transmission can be specified for each port.)
- ✓ MAC authentication
- ✓ WEB authentication
- ✓ Triple authentication
IEEE802.1X MAC-based/MAC/WEB authentication can be simultaneously
- ✓ Step authentication
authentications can be combined in phases
- ✓ MAC-WEB authentication
- ✓ MAC-802.1X authentication
- ✓ 802.1X-WEB authentication

• Access Control

- ✓ Access control can be controlled by the following parameters:
 - (1) IPv4 address, IPv6 address
(Source or Destination)
 - (2) MAC address
(Source or Destination)
 - (3) TCP/UDP port number
(Source or Destination)
 - (4) VLAN ID
 - (5) IEEE 802.1p Priority
 - (6) DSCP
 - (7) Protocol
 - (8) ICMP type
 - (9) TCP SYN Flag

• Ring protocol

- ✓ Redundancy is enabled by ring topology.

• Temperature Sensor

- ✓ The temperature is built into the switch and sends an SNMP trap when the internal temperatures exceeds the set temperature.

• DDM (Digital Diagnostic Monitoring)

- ✓ Since optical signal diagnostics can be performed without an optical power meter, rapid trouble-shooting is possible.

※In order to obtain monitoring information with this device, the connected SFP module must be DMI compatible.

• Industry-standard CLI

Product Name (Product No.)	10/100/1000T	SFP	Size(H×W×D)	Fan	Operation Temp
ZEQUO 2300 (PN26241K)	28 (24 + 4 combo)	4	44×440×312mm	Fanless	0-50°C
ZEQUO 2310 (PN26161K)	20 (16 + 4 combo)	4	44×440×312mm	Fanless	0-50°C

Interface

Twisted pair port: RJ45 connector

Transmitting and receiving network system :

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX
IEEE802.3ab 1000BASE-T

SFP extension slot:

IEEE802.3z 1000BASE-X
SFF-8472 (DMI: Diagnostic Monitoring Interface)

Switching mode

Packet transfer capability: Non-blocking

Max 14,880pps/port(10Mbps)
Max 148,800pps/port(100Mbps)
Max 1,488,000pps/port(1000Mbps)

MAC Address table : Max 16K entry/unit

Buffer memory: 2.0M Byte/unit

Software Specifications

Agent:

Management protocol :

SNMP v1/v2c/v3
(RFC 1157, RFC 1901, RFC 1908,
RFC 3411, RFC 3414)
TELNET (RFC854)
SSH v2 (RFC4251, RFC4252, RFC4253,
RFC4254)
SNTPv3 (RFC 1769)

Data transfer protocol :

TFTP (RFC 783, RFC 1350)

Supported MIB:

RFC1213-MIB (MIB II) (RFC 1213) (※1)
BRIDGE-MIB (RFC 4188) (※2)
SNMPv2-MIB (RFC 1907)
RMON-MIB (RFC 2819) only etherStatsTable
SNMP-FRAMEWORK-MIB (RFC 2571)
SNMP-MPD-MIB (RFC 2572)
SNMP-NOTIFICATION-MIB (RFC 2573N)
SNMP-TARGET-MIB (RFC 2573T)
SNMP-USER-BASED-SM-MIB (RFC 2574)
SNMP-VIEW-BASED-ACM-MIB (RFC 2575)
SNMP-COMMUNITY-MIB (RFC 2576)
IP-MIB (RFC 4293) (※3)
IF-MIB (RFC 2863) excluding IfMIB
IEEE8021-PAE-MIB excluding dot1xPaeSupplicant
*1 Excluding following item At , ipRouteTable, icmp, egp
*2 Excluding following item dot1dStp, dot1dSr, dot1dStatic
*3 Excluding following item ipDefaultRouterTable,
ipv6RouterAdvertTable

System log:

Transfers system logs to the Syslog server (IPv4/IPv6)

Others:

Syslog Client

(Transfers system logs to the Syslog server.)

TFTP Client

(Upgrades the software and saves / loads
configuration information.)

TELNET Client

DHCP Client

SNTP

LLDP

LLDP-MED

DNS Resolver

DHCP Snooping

UDLD

DDM

Statistics

Watch Dog Timer

Rated

Power supply:

AC100-240V, 50/60Hz
(with a built-in power supply)

Environmental Conditions

EMC compliance:

CISPR 32 Class A
EN 55032 Class A
AS/NZS CISPR32 Class A
VCCI Class A
EN 61000-3-2, EN 61000-3-3
CISPR 24
EN 55024
IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4,
IEC 61000-4-5,
IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Safety compliance:

IEC 62368-1
EN 62368-1

Environment compliance:

RoHS compliant

Operation environment

Temperature: 0 - 50°C

Humidity: 20 - 80%RH (no condensation)

Optional Accessories

1000BASE-SX SFP Module(i) (PN54022)

1000BASE-LX SFP Module(i) (PN54024)