

Dimension ES-2024

24-port Managed Layer 2 Ethernet Switch



Recommended for

- Small and Medium-sized Business looking for a cost-effective edge switch to desktops
- Small and Medium-sized Business requiring a manageable network with optimum performance
- Small and Medium-sized Business or campus with a Gigabit backbone looking for an edge switch supporting QoS and easy management

Features

Standard Compliance

- IEEE 802.3 10T Ethernet
- IEEE 802.3u 100Tx Ethernet
- IEEE 802.ab 1000T Ethernet
- IEEE 802.3z
- IEEE 802.3x Flow control
- IEEE 802.1d Spanning tree protocol
- IEEE 802.1w Rapid Spanning tree protocol
- IEEE 802.1p Class of service, priority protocols
- IEEE 802.1Q VLAN tagging
- IEEE 802.3ad Port aggregation

Performance

- 8.8Gbps non-blocking switching fabric
- 6.6 million packet-per-second forwarding rate
- Wire-speed performance

Traffic Management

- IEEE 802.1p CoS
- Two priority queues
- Supports IGMP snooping

Rate limiting

- Broadcast storm control

Layer 2 Features

- 10K MAC address entries
- IEEE 802.1Q, 64 static VLAN, up to 2K VLAN IDs
- Supports GVRP auto VLAN membership registration
- Port based VLAN
- Specific MAC address forwarding per port
- IEEE 802.3ad link aggregation, up to 7 groups
- Supports LACP, static and dynamic port aggregation
- IEEE 802.3w Rapid STP
- All ports support port mirroring
- Support IEEE802.1x port authentication

Network Management

- Supports ZyXEL iStacking™, up to 8 switches (24 in the future) can be managed by one IP

Web-based management

- Telnet CLI
- SNMP V2c
- RS-232C Local console
- IP management: static IP or DHCP client

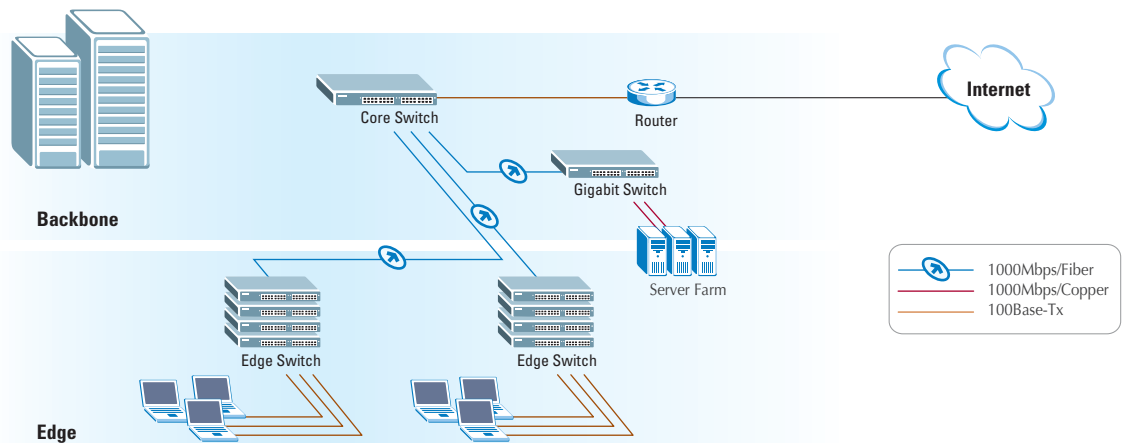
SNMP Standard

- RFC1213 MIB II
- RFC1493 Bridge MIB
- RFC1643 Ethernet MIB
- RFC1757, four group of RMON
- RFC2674 VLAN MIB

System Maintenance and Monitoring

- System trap: Link up, link down, power on, power off, fan fail, fan recover
- RMON group 1, 2, 3, 9
- System configuration backup and restore
- Firmware upgrade via FTP

Application Diagram



Feature Matrix

Dimension Managed Switch

	ES-2008	ES-2008-SC	ES-2008-SC30	ES-2008-GTP	ES-2024	ES-3024	ES-4024	GS-3012	GS-3012F
General									
Layer 3 IP Switching							•		
Rack mountable	•	•	•	•	•	•	•	•	•
Dimension WxDxH (mm)	250x132x37	250x132x37	250x132x37	250x132x37	440x200x44	440x300x44	440x300x44	440x305x44	440x305x44
Port Number 10/100 RJ45	8	8	8	8	24	24	24		
Port Number 100/1000								12 1000Base-T	12 mini-GBIC
Uplink		1x100FX MM Fiber	1x100FX SM Fiber	1x1000Base-T Copper	2x1000Base-T 2x mini-GBIC (shared)	2xUplink slot 1xStacking slot	2xGBIC 1xStacking	4xmini-GBIC	4x1000Base-T
Switch Capability	3.6Gbps	3.6Gbps	3.6Gbps	3.6Gbps	8.8Gbps	12.8Gbps	12.8Gbps	24Gbps	24Gbps
All Ports MDI/MDI-X	•	•	•	•	•	•	•	•	•
full/half duplex	•	•	•	•	•	•	•	•	•
Auto Negotiation	•	•	•	•	•	•	•	•	•
MAC Address Table	8K	8K	8K	8K	10K	16K	16K	16K	16K
IP Address Table							16K		
Packet Buffer	512KB	512KB	512KB	512KB	384KB	2MB	2MB	1MB	1MB
Port Mirroring	•	•	•	•	•	•	•	•	•
802.1d STP	•	•	•	•	•	•	•	•	•
802.1w RSTP	•	•	•	•	•	•	•	•	•
802.3ad Link Aggregation	•	•	•	•	•	•	•	•	•
IP Management									
DHCP Server							•		
DHCP Relay							•		
DHCP Client					•	•		•	•
L3 Routing Protocol									
Static Routing							•		
RIP							•		
OSPF							•*		
QoS									
Access Control List						•	•	•	•
802.1Q VLAN	256	256	256	256	64	4K	4K	4K	4K
Port-Based VLAN	•	•	•	•	•	•	•	•	•
802.1p Priority queue	2	2	2	2	2	4	4	8	8
Rate Limiting					•	•	•	•	•
Broadcast Storm Control	•	•	•	•	•	•	•	•	•
Security									
802.1x					•	•	•	•	•
Static MAC Filtering	•	•	•	•	•	•	•	•	•
Limited MAC Count per Port						•	•	•	•
Management									
SNMP	•	•	•	•	•	•	•	•	•
RMON	•	•	•	•	•	•	•	•	•
Web Management	•	•	•	•	•	•	•	•	•
Telnet CLI	•	•	•	•	•	•	•	•	•
iStacking™					•	•	•	•	•
RJ-45 MGMT port								•	•
RS-232C Local Console	•	•	•	•	•	•	•	•	•
Support BPS (Back-up Power System)								•	•

* For future release

Specifications

Hardware Specification

- Connectors
 - 24 10/100 ports, auto-negotiation and cross-over
 - 2 1000Base-T ports, RJ-45
 - 2 mini-GBIC ports, SFP
 - 1 RS-232c DB-9 port

Power Supply

- Input Voltage 100 ~ 240 VAC, 50/60Hz
- Max power rating: 21 Watt

Physical Specification

- Dimensions:
440(L) x 175(D) x 44(H) mm
- Weight: 2.9kg

Operating Environment

- Operating temperature: 0 ~ 45°C
- Storage temperature: -25 ~ 70°C
- Operating humidity: 10% ~ 90%, non-condensing



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