

# Performance & Reliability

The iES4024GP provides wire speed 10/100/1000 Gigabit Ethernet PoE/Non-PoE switching features that are targeted for high quality video over IP. This Samsung technology provides 2 combo ports for high speed connectivity showing a high price/performance ratio. The IP clustering feature in the iES4024GP allows for the interconnection of 36 switches to be managed in a logical group using a single IP address. Advanced QoS features are provided to minimize latency and give priority for IP video packets. The standards based 802.3af PoE provides up to 15.4W per port across all 24 ports.

## iES4024GP

### 24 Ports Gigabit PoE switch

- 22 ports 10/100/1000 Base-T with PoE
- 2 ports 10/100/1000 Base-T Combo with PoE
- 1 Console Port
- IEEE802.3af Power over Ethernet supported in all the access ports
- Up to 36 switches can be managed in a single logical group using a single IP address
- Supports 802.1Q and port-based VLAN.
- Dynamic VLAN supported through GVRP Voice
- Save bandwidth and improve throughput by sending multicast traffic only to ports with registered multicast group members
- Bundle multiple Ethernet Ports to maximize bandwidth pipe
- L2 ~L4 ACL, Radius, TACACS+, SSH, SSL, 8021x based Port Security, DHCP Snooping



iES Series Ethernet Switch  
**iES4024GP**



## Specifications

	iES4024GP	
<b>HARDWARE</b>		
Ports	22 10/100/1000BASE-T ports with POE, 2 Gigabit combo ports with POE, 1 Console port	
Switching Fabric	48Gbps, 35.7Mpps	
Switching DB	8K MAC address entries	
Weight	4.33kg (9.53 lbs)	
Dimensions	4.3 x 44 x 32 cm (1.7 x 17.3 x 12.6inch)	
AC Input	100 to 240 V, 50-60 Hz	
Power Consumption	225W (System 45W, POE 180W)	
Power-Over-Ethernet	Maximum output power per port: 15.4 W, Maximum output power per port: 7.5 W simultaneously	
Network Interface	N/A	
<b>SOFTWARE</b>		
Flow Control	IEEE 802.3x for full duplex mode, Back pressure flow control half duplex mode	
Spanning tree	<ul style="list-style-type: none"> <li>• IEEE 802.1D STP</li> <li>• IEEE 802.1w RSTP</li> <li>• IEEE 802.1s MSTP</li> <li>• Spanning Tree Fast Forwarding</li> <li>• Auto Edge</li> <li>• Loop Protection</li> </ul>	
VLAN	<ul style="list-style-type: none"> <li>• 802.1Q Tag-based VLAN</li> <li>• 802.1Q Port-based VLAN</li> <li>• 802.1v Protocol-based VLAN</li> <li>• 256 VLANs entries out of 4K VLAN IDs</li> <li>• GVRP</li> <li>• Voice VLAN</li> </ul>	
IGMP snooping	<ul style="list-style-type: none"> <li>• V1, v2, v3</li> <li>• Querier</li> <li>• Immediate Leave</li> <li>• Filtering and throttling</li> </ul>	
Link Aggregation	IEEE 802.3ad with LACP (-8 aggregation groups up to 8 ports)	
MVR	Yes	
Jumbo Frame	10K in gigabit ports	
QnQ	Yes	
Quality of Service	<ul style="list-style-type: none"> <li>• Priority queue <ul style="list-style-type: none"> <li>-Scheduling : Strict priority, WRR</li> <li>-4 queues per port</li> </ul> </li> <li>• DiffServ</li> <li>• COS <ul style="list-style-type: none"> <li>-IEEE 802.1p, DSCP based COS</li> </ul> </li> <li>• Rate limiting (Per Port based) <ul style="list-style-type: none"> <li>-Ingress, Egress</li> </ul> </li> </ul>	
Security	<ul style="list-style-type: none"> <li>• Storm Control <ul style="list-style-type: none"> <li>- Broadcast storm</li> <li>- Multicast storm</li> <li>- DLF (Destination Lookup Failure)</li> </ul> </li> <li>• MAC Address filtering</li> <li>• Username/Password authentication</li> <li>• Access control list (L2/L3/L4)</li> <li>• AAA <ul style="list-style-type: none"> <li>- RADIUS, TACACS+</li> </ul> </li> <li>• MAC based Authentication</li> <li>• HTTPS/SSL</li> <li>• SSHv1/v2</li> <li>• 802.1x <ul style="list-style-type: none"> <li>- Port-Based</li> <li>- Supplicant Support</li> <li>- VLAN Assignment</li> <li>- Guest VLAN</li> <li>- Co-works with Radius, TACACS+ server</li> </ul> </li> <li>• Management Interface Access filtering <ul style="list-style-type: none"> <li>- SNMP, WEB, Telnet</li> </ul> </li> <li>• DHCP Snooping</li> <li>• IP Source Guard</li> <li>• Management method <ul style="list-style-type: none"> <li>- Web-based</li> <li>- Telnet (4 sessions)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Software download <ul style="list-style-type: none"> <li>- TFTP, Xmodem</li> </ul> </li> <li>• Dual Firmware Images</li> <li>• Configuration file download <ul style="list-style-type: none"> <li>- TFTP</li> </ul> </li> <li>• SNMP v1/v2c/v3</li> <li>• RMON (group 1, 2, 3, 9)</li> <li>• BOOTP <ul style="list-style-type: none"> <li>- Client</li> </ul> </li> <li>• DHCP <ul style="list-style-type: none"> <li>- Client</li> <li>- Relay (Option82)</li> </ul> </li> <li>• Port mirroring (one-to-many)</li> <li>• Event/Error Log <ul style="list-style-type: none"> <li>- Local, Syslog, SMTP</li> </ul> </li> <li>• Remote Ping</li> <li>• SNMP</li> <li>• NTP</li> <li>• IEEE 802.1ab(LLDP)</li> <li>• UPnP</li> <li>• Banner</li> <li>• Web authentication</li> <li>• IP Clustering (36 members)</li> </ul>



The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

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