



# Fast Ethernet High Quality Video Over IP



Ethernet Switch

## ieS4028FP

IES4028FP provides wire speed 10/100 Fast Ethernet PoE/Non-PoE switching with features targeted for voice and high quality video over IP. They provide 4 Gigabit ports as well, showing high price/performance ratio. Their IP clustering feature allows up to 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 voice and video packets. For PoE use, It supports 15.4W per port (802.3af) and up to 180W total consumption.

- High Gigabit Port Density
- IEEE802.3af Power over Ethernet supported in all the access ports
- IP Clustering
- GVRP and Voice VLAN
- IGMP Snooping
- MultiLink Trunking through LACP
- Comprehensive Security


## Ethernet Switch

# ieS4028FP

## Specifications



### Physical Features

	
	<b>ieS4028FP</b>
<b>Ports</b>	<ul style="list-style-type: none"> <li>• 24 10/100 BASE-T ports with PoE</li> <li>• 2 10/100/1000 BASE-T ports</li> <li>• 2 Gigabit combo ports</li> <li>• 1 Console port</li> </ul>
<b>Switching Capacities</b>	• 12.8Gbps
<b>Forwarding Rate</b>	• 9.5Mpps
<b>Weight</b>	<ul style="list-style-type: none"> <li>• 4.13kg</li> <li>• 9.11lbs</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 4.3 x 44 x 33cm</li> <li>• 1.7 x 17.3 x 12.992inch</li> </ul>
<b>AC Input</b>	• 100 to 240V, 50-60Hz
<b>Power Consumption</b>	• 225W (System 45W, PoE 180W)
<b>Power-over-Ethernet</b>	<ul style="list-style-type: none"> <li>• Maximum output power per port : 15.4W</li> <li>• Maximum output power per port : 7.5W simultaneously</li> </ul>
<b>Network Interface</b>	<ul style="list-style-type: none"> <li>• 10/100 BASE-T ports</li> <li>• 10/100/1000 BASE-T ports</li> <li>• SFP Transceiver slots supporting SX, LX and ZX SFP</li> <li>• Multimode fiber cable : 62.5/125 or 50/125 microns</li> <li>• Single mode fiber cable : 9/125 micron</li> </ul>

### Software Features

Feature	Description
<b>Flow Control</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3x for full duplex mode</li> <li>• Back pressure flow control half duplex mode</li> </ul>
<b>Spanning Tree</b>	<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>
<b>MAC Addresses</b>	• 8K MAC address entries
<b>VLAN</b>	<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>
<b>IGMP Snooping</b>	<ul style="list-style-type: none"> <li>• V1, V2, V3</li> <li>• Querier</li> <li>• Immediate Leave</li> <li>• Filtering and throttling</li> </ul>
<b>Link Aggregation</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3ad with LACP</li> <li>• 8 aggregation groups up to 8 ports</li> </ul>
<b>MVR</b>	• Yes
<b>Jumbo Frame</b>	• 10K in gigabit ports
<b>QnQ</b>	• Yes
<b>Quality of Service</b>	<ul style="list-style-type: none"> <li>• Priority queue : Scheduling (Strict priority, WRR), 4 queues per port</li> <li>• DiffServ</li> <li>• COS : IEEE 802.1p, DSCP based COS</li> <li>• Rate limiting (Per Port based) : Ingress, Egress</li> </ul>

Feature	Description
<b>Security</b>	<ul style="list-style-type: none"> <li>• Storm Control : Broadcast storm, Multicast storm, DLF (Destination Lookup Failure)</li> <li>• MAC Address filtering</li> <li>• Username/Password authentication</li> <li>• Access control list (L2/L3/L4)</li> <li>• AAA : RADIUS, TACACS+</li> <li>• MAC based Authentication</li> <li>• HTTPS/SSL</li> <li>• SSHv1/v2</li> <li>• 802.1x : Port-Based, Supplicant Support, VLAN Assignment, Guest VLAN, Co-works with Radius, TACACS+ server</li> <li>• Management Interface Access filtering : SNMP, WEB, Telnet</li> <li>• DHCP Snooping</li> <li>• IP Source Guard</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• Management method : Web-based, Telnet (4 sessions)</li> <li>• Software download : TFTP, Xmodem</li> <li>• Dual Firmware Images</li> <li>• Configuration file download : TFTP</li> <li>• SNMP v1/v2c/v3</li> <li>• RMON (group 1, 2, 3, 9)</li> <li>• BOOTP : Client</li> <li>• DHCP : Client, Relay (Option 82)</li> <li>• Port mirroring (one-to-many)</li> <li>• Event/Error Log : Local, Syslog, SMTP</li> <li>• Remote Ping</li> <li>• SNTp</li> <li>• NTP</li> <li>• IEEE 802.1ab (LLDP)</li> <li>• UPnP, Banner, Web authentication</li> <li>• IP Clustering (36 members)</li> </ul>

\* Specifications are subject to change without prior notice



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