

IPECS ES-3000 SERIES

FULLY MANAGED ETHERNET SWITCHES

The iPECS ES-3000 family of fully-managed, Layer 2 Switches support enterprise-class switching features, including advanced QoS, security and simplified and intuitive management features, allowing network administrators to build high-performing, robust networks, affordably. The ES-3000 switches are perfect for businesses looking for solutions with the latest enterprise class switching features at an affordable price.

The iPECS ES-3000 series is available in 6 models from Fast Ethernet to Gigabit Ethernet offering multiple choices to meet the demands of various high-performance network environments. Businesses can extend their existing networks or build new, reliable and high-performing ones using sophisticated features optimized for SMBs and enterprises that support both aggregation and access-level solutions.

To reduce the growing complexity and often laborious and time-consuming process, Ericsson-LG offers an industry-unique solution called the iPECS Unified Device Manager (UDM). The iPECS UDM enables network administrators to quickly and easily configure and manage multiple iPECS switches and other Link Layer Discovery Protocol (LLDP) compatible devices across the network contributing to reduced installation and operation time, effort and expense for businesses with limited resources and budgets.

The iPECS ES-3000 Series also incorporates the latest technologies such as Green Ethernet and draft standard POE+. These can connect to high power-consuming devices like 802.11n APs and multi-media videophones by providing up to 30 watts to these devices while also connecting to other low power devices.



HIGHLIGHTS

Enterprise-class Layer 2 Switching with advanced features

STP/RSTP/MSTP, IGMP Snooping, VLAN, Link Aggregation, LLDP, Storm Control, Jumbo Frame

Fully Managed

Managing multiple iPECS switches from a single intuitive graphic user interface

Advanced Built-in Security

Advanced built-in security including full 802.1x RADIUS authentication, filtering, ACL

VoIP and UC Friendly

Advanced L2 QoS, Economical & Flexible POE using 802.3af & 802.3at

Green Ethernet

Environment-friendly design for power saving via link connection and cable length

Easy to Install

Auto-negotiation, Auto-MDI/MDIX, at-a-glance tri-colored status LED

IPECS ES-3000 SERIES

Model	Ports	Speed	PoE	Uplink	
ES-3026	24	Fast Ethernet	N/A	2 SFP/RJ-45 Combo port	HIIII HIIII Ya.
ES-3026P	24	Fast Ethernet	PoE/PoE+	2 SFP/RJ-45 Combo port	***************************************
ES-3024G	24	GigE	N/A	4 SFP ports	**************************************
ES-3024GP	48	GigE	PoE/PoE+	4 SFP ports	
ES-3052G	48	GigE	N/A	4 SFP ports	
ES-3052GP	48	GigE	PoE/PoE+	4 SFP ports	

KEY BENEFITS

Easy to Install

The iPECS Ethernet Switch has plug-and-play capabilities such as auto-negotiation of speed and duplex mode, Auto-MDI/MDIX, and at-a-glance tri-colored intuitive status LED indicators on top of the ports. Its intuitive web-based user interface makes installation and administration much easier.

Smart Management

Ericsson-LG offers a unique management tool, the iPECS Unified Device Manager (UDM), which enables the management of all iPECS product lines and LLDP-compatible appliances from IP telephony to data networks through a single management system. The iPECS UDM simplifies network administration and management through the use of a single consistent and familiar interface.

Green Ethernet (Gigabit models only)

The iPECS ES-3000 Gigabit Ethernet Switches incorporate the latest green Ethernet technology to help save energy costs. The iPECS ES-3000 series switches detect link status, allowing each port to power down when the port is not connected or the connected device is not active. In addition, it detects cable length and adjusts the signal strength accordingly.

Advanced Quality of Service (QoS)

Prioritization of the data on the network is essential in order to ensure that mission-critical applications, such as voice, are delivered in a timely manner. The iPECS Ethernet Switch is able to classify packets into one of four different priority queues and serve each packet in the priority queues using WRR (Weighted Round Robin) or SPQ (Strict Priority Queuing) method.

Flexible Power over Ethernet (PoE models only)

The Ericsson-LG iPECS Ethernet PoE switches are designed to support both 802.3af standard and 802.3at draft standard. Therefore, SMBs flexibly and cost effectively may connect standard and high-powered devices on a single Ericsson-LG PoE switch. In addition, the PoE control and monitoring can be easily managed via the intuitive web user interface.

Secure Networking

The iPECS ES-3000 Ethernet Switches support key security features like RADIUS authentication and authorization as well as multi-layer filtering. Network management via web management sessions are secured with HTTPS encryption.

Enterprise-class L2 switching features available in iPECS ES-3000 Series · STP, RSTP, MSTP Provides path redundancy while preventing undesirable loops in the network, thus improving network resiliency and availability · IGMP snooping v1/2/3 With IGMP Snooping enabled, eliminate unnecessary traffic and improve overall network performance · Advanced Security 802.1x/Radius/TACACS+ Authentication & encryption, Advanced ACL, Guest VLAN, DHCP Snooping, Dynamic ARP Inspection, SSHv2, HTTPS Advanced OoS Standard L2/L3 QoS Features + Priority marking, L2-L4 Policing (Metering), Time-Based ACL, CPU Interface Filtering · Link aggregations Group together any number of ports automatically using LACP, 8 members per group, 12 groups · VLAN Segment the network by grouping users for optimal use of the network - Port/Protocol/MAC/IP based VLAN, 256 VLANs · Power over Ethernet Provides power based on both 802.3af standard and 802.3at draft standard · Single IP Clustering Single IP Management via clustering up to 36 switches Converged Network using iPECS Ethernet Switch Solutions PSTN Page Jas. Page Page - - - -Branch Office Headquarters

FEATURE SPECIFICATIONS

List	Feature	Detailed List	ES-3000 Series
		802.1d(STP)/802.1w(RSTP)/802.1s (MSTP)	Yes
	Spanning Tree Protocols	BPDU filter/guard	Yes
		Root Guard	Yes
		Max number of groups	12
	Link Aggregation (802.3ad)	Max number of members per group	8
		Source and Destination MAC based load balance	Yes
L2 Switching		VLAN IDs	4096
	VLAN	Max Number of active VLANs per Switch	256
		Port/MAC/IP based VLAN, Private VLAN, Voice VLAN, GVRP	Yes
		MVR (Multicast VLAN Registration), VLAN Double tagging (Q in Q)	Yes
	LLDP (802.1ab)	Link Layer Discovery Protocol	Yes
	IGMP Snooping	IGMP Snooping v1/2/3, Snoop IGMP packets per VLAN, Join / Leave, Fast leave, Quierer	Yes
		Max Number of multicast groups	256
		QoS on L3 layer using TOS field of IP packet header	Yes
		DSCP to 802.1p mapping	Yes
		IPv4 Diffserv	Yes
	QoS	QoS on L2 layer using TCI field of VLAN header	Yes
Traffic Control		Marking / Remarking	Yes
		Strict Priority Queueing, Weighted Round Robin Queueing	Yes
		MAC Based ACL	Yes
	ACL	Source and Destination IP Based ACL	Yes

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List	Feature	Specifications	ES-3000 Series
		Source and Destination Port Based ACL	Yes
		Protocol type based ACL	Yes
	ACL	Time based	Yes
		Number of ACL rules	512
Traffic Control		Extended IPv6 ACL	48-port model only
	MAC Limit	MAC limit per port, MAC based filtering	Yes
	Flow control (802.3x)	Full / half duplex, Back pressure flow control for half duplex	Yes
	Rate Limiting / Shaping	Port based rate limiting/shaping	Yes
	Storm Control	Broadcast and Multicast packet control	Yes
	Port Security	Static/Dynamic port security (MAC based)	Yes
	DHCP	DHCP Snooping, IP Source Guard (IP Spoofing prevention)	Yes
	BIIO	Dynamic ARP Inspection	Yes
		RADIUS/TACACS+ Authentication and Accounting	Yes
2		802.1x Extensible Authentication	Yes
Security		802.1x Multiple Host Multiple Authentication per Port	Yes
	Authentication	802.1x Guest VLAN with EAP enabled on port (GVLAN-SHSA)	Yes
		802.1x MAC based EAP Authentication (Clientless EAP)	Yes
		802.1x RADIUS assigned VLA in MHMA mode	Yes
		User/password authentication (up to 5 users)	

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	Access (Command Interface	HTTP, HTTPS, Telmet, SSH, SNMP v1/2/3, SNMP trap	Yes
	MIB	TCP/IP based internets (RFC 1213), RMON v1/2 (RFC 2819 / RFC 4502)	Yes
	DHCP	DHCP Client, DHCP Snooping, DHCP Provision	Yes
	File Transfer	FTP Client, TFTP Client	Yes
Management	Port Mirroring	Received traffic, Transmit traffic, Received and Transmit traffic, N:1 mirroring	Yes
	Network Time	SNTP (RFC 2030)	Yes
	Backup	Configuration file upload/download	Yes
	Firmware upgrade	Firmware backup / upgrade, Dual firmware images	Yes
	IPv6 management	Telnet server/ICMP	Yes
	IP clustering	IP Clustering up to 36 switches	Yes

TECHNICAL SPECIFICATIONS

List	Detailed List	ES-3026	ES-3026P	ES-3024G	ES-3024GP	ES-3052G	ES-3052GP
	Switching Fabric Capacity (Gbps)	8.8	8.8	48	48	96	96
	Packet Forwarding Throughput (Mpps)	6.6	6.6	35.7	35.7	71.4	71.4
	Flash Memory	32M	32M	32M	32M	32M	32M
Performance	DRAM	128M	128M	128M	128M	128M	128M
	MAC Address Capacity	8K	8K	8K	8K	16K	16K
	MTU / Jumbo Frames support	10K	10K	10K	10K	10K	10K
	Auto-negotiation, Auto-MDI/MDIX	Yes	Yes	Yes	Yes	Yes	Yes
	10/100Base-TX Ports per Unit	24	24	-		-	-
	10/100/1000Base -T Ports per Unit	2	2	24	24	48	48
Port	Type of Built-in uplink ports	2 pair combo RJ45/SFP	2 pair combo RJ45/SFP	4 shared SFP	4 shared SFP	4 SFP	4 SFP
	Types of GBIC and SFP support	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)
Management	Management Console port (Connector)	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
	Reset button (rear panel)	Yes	Yes	Yes	Yes	Yes	Yes
	PoE Support on all ports based on 802.3af		Yes		Yes		Yes
	PoE+ based on 802.3at		Yes (port 1- 6)		Yes (port 1- 6)		Yes (All)
PoE	Display of PoE Power in Use on Web Admin		Yes		Yes		Yes
	Auto disable on the excess of total power		Yes		Yes		Yes
	Dynamic Power Allocation		Yes		Yes		Yes
	PoE Power budget		185W		185W		410W
Dimensi	19" Rack Space [EIA Standard RU]	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions	Height [mm]	44	44	44	44	44	44

TECHNICAL SPECIFICATIONS

List	Detailed List	ES-3026	ES-3026P	ES-3024G	ES-3024GP	ES-3052G	ES-3052GP
Dimensions	Width (mm)	440	440	440	440	440	440
	Depth (mm)	210	280	210	280	280	379
	Weight (Kg)	2.2	4.3	2.3	4.4	4.4	4.4
	100-240 VAC, 50/60Hz	Yes	Yes	Yes	Yes	Yes	Yes
Power	Max power consumption (Watts)	17	245	23	252	65	530
	Operating Temperature (° C)	0 to 50 °C	0 to 50 ° C				
	Storage Temperature (° C)	-40 to 70 °C					
Environmental	Operating Humidity (non- condensing)	10% to 90%					
	Storage Humidity (non-condensing)	10% to 90%					
	Operating Altitude (Meters)	4000m	4000m	4000m	4000m	4000m	4000m
	EMC Compliance - FCC class A, CE	Yes	Yes	Yes	Yes	Yes	Yes
Certifications	Electromagnetic immunity, Korea [KCC]	Yes	Yes	Yes	Yes	Yes	Yes
	Safety Compliance – UL,CB	Yes	Yes	Yes	Yes	Yes	Yes
Environment Regulation Compliance	WEEE, RoHS	Yes	Yes	Yes	Yes	Yes	Yes
	PFOS	Yes	Yes	Yes	Yes	Yes	Yes