

Simpler & Smarter Networking for SMBs

iPECS

ES-2000 Series

iPECS Ethernet Switch ES-2000 Advanced Smart Switch Series

iPECS ES-2000 SWITCHES ARE PERFECT FOR SMBs LOOKING FOR BALANCED SOLUTIONS BETWEEN ADVANCED SWITCHING FEATURES AND AFFORDABILITY.



Overview

iPECS ES-2000 Series are advanced smart Layer 2 switches which are optimized for SMBs looking for reliable and cost effective workgroup switches along with key switching features. These simple to install and easy to manage switches enable administrators to quickly and easily build networks at an affordable cost.

ES-2000 series comes in 9 models from Fast Ethernet to Gigabit Ethernet offering multiple choices to address various demands and network environments flexibly and affordably. In addition, ES-2000 series delivers key layer 2 switching features, QoS, built-in security and Power over Ethernet (POE). The user-friendly intuitive GUI makes it easy to configure the ES-2000 to meet the customer needs.

To reduce the complexity and often time-consuming configuration process, LG-Ericsson offers an industry-unique solution, the Unified Device Manager (iPECS UDM). UDM enables network administrators to quickly and easily manage multiple iPECS switches across the network.

These LG-Ericsson switches also incorporate the latest technologies such as Green Ethernet and PoE plus. ES-2000 switches can connect to high power consuming devices like 802.11n APs and multimedia videophones by providing up to 30 watts to these devices while connecting to other low power devices.

Highlights

Easy to Install

Auto-negotiation, Auto-MDI/MDIX, At-a-glance status LEDs

Smart Management

Managing multiple iPECS switches from a single intuitive graphic user interface

Green Ethernet

Environment friendly design for power saving including Energy Efficient Ethernet and via link status and cable length

VoIP and UC Friendly

Advanced L2/L3 QoS, Economical & Flexible POE via 802.3af & 802.3at

Secure Networking

Secured authentication and encryption, Port security and filtering

iPECS ES-2000 Series



ES-2026

• 24 ports 10/100Base-TX • 2 ports Gigabit Combo



ES-2026P

• 24 ports 10/100Base-TX • PoE on all ports



ES-2050

• 48 ports 10/100Base-TX • 2 ports Gigabit Combo



ES-2010G

• 8 ports 10/100/1000Base-T • 2 ports SFPs



ES-2010GP

• 8 ports 10/100/1000Base-T • PoE on all ports



ES-2024G

• 24 ports 10/100/1000Base-T • 4 ports shared SFPs



ES-2024GP

• 24 ports 10/100/1000Base-T • PoE on all ports



ES-2052G

• 48 ports 10/100/1000Base-T • 4 ports SFPs



ES-2052GP

• 48 ports 10/100/1000Base-T • PoE on all ports

Key Benefits

Easy to Install

iPECS Ethernet Switches employ plug and play capabilities such as Auto-negotiation for speed and duplex mode, Auto-MDI/MDIX, and at-a-glance status LED's right on top of the ports. Its intuitive web user interface makes the installation and administration much easier.

Smart Management

LG-Ericsson offers a unique management tool, the Unified Device Manager (iPECS UDM), which enables the management of all iPECS product lines from IP Telephony to Data Networks via a single management interface. iPECS UDM simplifies network administration and management through the use of a single consistent and familiar interface.

Green Ethernet

iPECS ES-2000G Gigabit Ethernet Switches incorporate a range of green Ethernet technologies to help you save energy costs for your network. The Switches use the latest Energy Efficient Ethernet standard to make better use of the Ethernet ports or they can detect link status and cable length, allowing each port to power down when the port is not connected or using shorter cables.

Advanced Quality of Service

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 Switches are 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.

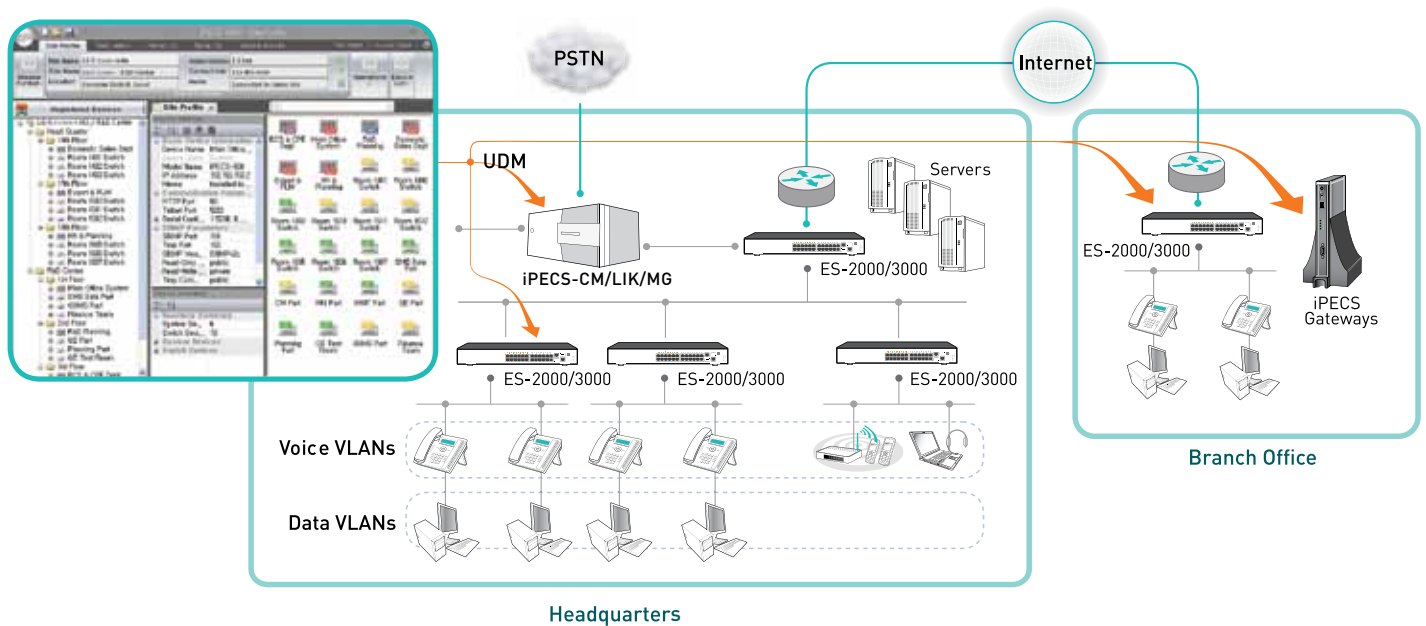
Flexible Power over Ethernet (POE models only)

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

Secure Networking

iPECS ES-2000 Ethernet Switches support key security features like RADIUS authentication and authorization as well as multi-layer filtering. All web management sessions are secured with HTTPS encryption.

Converged Network using iPECS Ethernet Switch Solutions



Feature Specifications

List	Feature	Specifications	ES-2024 / 2026 Models	ES-2010 Models	ES-2050 / 2052 Models
L2 Switching	Spanning tree protocols	802.1d (STP) / 802.1w (RSTP)	Yes	Yes	Yes
		802.1s (MSTP), BPDU filter / guard		Yes	
	Link Aggregation (802.3ad)	Max number of groups	12	5	12
		Max number of members per group	8	8	8
	VLAN	VLAN IDs	4096	4096	4096
		Max Number of active VLANs per Switch	128	4K	256
		Port VLAN, Voice VLAN	Yes	Yes	Yes
	LLDP (802.1ab)	MAC / IP based VLAN, Private VLAN			Yes
		Link Layer Discovery Protocol, LLDP-MED	Yes	Yes	Yes
	Multicast	IGMP Snooping v1/2, IGMP proxy v1/2/3, Querier v1/2, immediate / fast leave	Yes		Yes
Max Number of multicast groups		128	128	128	
Traffic Control	QoS	Number of Queues	4	8	8
		IP Precedence, DSCP, Marking / Remarking	Yes	Yes	Yes
		Strict Priority Queuing, Weighted Round Robin Queuing	Yes	Yes	Yes
	ACL	L2 / L3 / L4 based ACL	Yes	Yes	Yes
		Max number of ACL rules	512	256	512
	MAC limit	MAC limit per port	Yes	Yes	Yes
	Rate Limiting / Shaping	Port based rate limiting / shaping	Yes	Yes	Yes
	Storm control	Broadcast and Multicast packet control	Yes	Yes	Yes
	Port Security	Static / Dynamic port security (MAC based)	Yes	Yes (Dynamic only)	Yes
	Security	Authentication	RADIUS / TACACS+ Client	Yes	Yes
RADIUS accounting				Yes	
802.1x Extensible Authentication			Yes	Yes	Yes
802.1x Multiple Host Multiple Authentication per Port			Yes	Yes	Yes
802.1x RADIUS assigned VLAN in MHMA mode			Yes	Yes	Yes
User / password authentication (Up to 5 users)			Yes	Yes	Yes
Management	Access (Command interface)	HTTP, HTTPS, SNMP v1/2/3, SNMP trap (RFC 1215)	Yes	Yes	Yes
	MIB	TCP / IP based internets (RFC 1213), RMON v1 (RFC 2819)	Yes	Yes	Yes
	DHCP	DHCP Client	Yes	Yes	Yes
	Port Mirroring	Received traffic, Transmit traffic, Received and Transmit traffic, N:1 mirroring	Yes	Yes	Yes
	Network Time	SNTP (RFC 2030)	Yes	Yes	Yes
	Backup	Configuration file upload / download	Yes	Yes	Yes
	Firmware upgrade	Firmware backup / upgrade	Yes	Yes (Upgrade only)	Yes
	IP Clustering	IP Clustering up to 36 switches	Yes		Yes

Technical Specifications

List	Detailed list	ES-2026	ES-2026P	ES-2050	ES-2010G	ES-2010GP	ES-2024G	ES-2024GP	ES-2052G	ES-2052GP
Performance	Switching Fabric Capacity (Gbps)	8.8	8.8	13.6	20	20	48	48	104	104
	Packet Forwarding Throughput (Mpps)	6.6	6.6	10.12	14.88	14.88	35.7	35.7	77.3	77.3
	Flash Memory	16M	16M	16M	16M	16M	16M	16M	16M	16M
	DRAM	128M	128M	128M	32M	32M	128M	128M	128M	128M
	MAC Address Capacity	8K	8K	16K	8K	8K	8K	8K	16K	16K
	MTU / Jumbo Frames support	10K	10K	10K	9K	9K	10K	10K	10K	10K
	Auto-negotiation, Auto-MDI / MDIX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port	10 / 100Base-TX Ports per Unit	24	24	48						
	10 / 100 / 1000Base-T Ports per Unit	2	2	2	8	8	24	24	48	48
	Type of Built-in uplink ports	2 pair combo RJ45 / SFP	2 pair combo RJ45 / SFP	2 pair combo RJ45 / SFP	2 SFP	2 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)	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)	SFP (SX, LX, LH, FX)
Management	Reset button	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PoE	PoE Support on all ports based on 802.3af		Yes			Yes		Yes		Yes
	PoE+ Support on all ports based on 802.3at		Yes			Yes		Yes		Yes
	PoE Power Indication and safety		Yes			Yes		Yes		Yes
	Auto disable after exceeding power budget		Yes			Yes		Yes		Yes
	Dynamic Power Allocation		Yes			Yes		Yes		Yes
PoE Power budget		185W			75W		185W		410W	
Power	19" Rack Space (EIA standard RU)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Height (mm)	44	44	44	36	44	44	44	44	44
	Width (mm)	440	440	440	195	330	440	440	440	440
	Depth (mm)	210	280	280	115	203	210	280	280	379
	Weight (Kg)	1.7	3.2	2.96	0.74	2.2	1.7	3.32	3.14	5.27
Power	100-240 VAC, 50 / 60Hz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Max power consumption (Watts)	17	245	42	15	85	23	252	65	530
	Power Saving	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Environmental	Operating Temperature (°C)	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
	Storage Temperature (°C)	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C
	Operating Humidity (non-condensing)	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%
	Storage Humidity (non-condensing)	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%
	Operating Altitude (meters)	4000m	4000m	4000m	4000m	4000m	4000m	4000m	4000m	4000m
Certifications	EMC Compliance - FCC class A, CE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Safety Compliance - UL, CB	Yes	Yes	Yes	Yes (CB only)	Yes (CB only)	Yes	Yes	Yes	Yes
	Korea (KCC), Australia (C-Tick)	Yes	Yes				Yes	Yes		
Environmental Regulation Compliance	WEEE, RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	PFOS, Reach	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes