



LANCOM ES-2126P+

Fast-Ethernet switch which supports flexible PoE and Gigabit connections for performance networks

- 24 Fast-Ethernet and two combo ports (TP/SFP) for Gigabit connections
- PoE at all 24 ports (total power output: max. 185 W)
- QoS-port based, VLAN (802.1q) or TOS/ DiffServ-based
- 802.1x authentication at all ports
- Full Tacacs+ integration
- Easy administration via Webconfig and LANconfig support
- Monitoring via SNMP and LANmonitor
- Quiet fans with high lifetime
- 5-year warranty on all components

The LANCOM ES-2126P+ is a managed Fast-Ethernet switch with 24x 10/100 Mbps Ethernet ports and two combo ports TP/SFP 10/100/1000 for Gigabit Ethernet connections. This switch features not only store-and-forward mode but also priority queuing, allowing network bandwidth to be reserved for certain data packets such as voice data. The overall power output of 185 Watts from the PoE supply greatly simplifies the network installation and can be divided flexibly between the 24 Fast-Ethernet ports.

More Performance

The LANCOM ES-2126P+ provides power where it's needed: The backplane can handle data throughput at up to 8.8 Gbps. A high-speed uplink is assured by the backbone connection via Gigabit ports. Speed is provided by very short latency times under 5µs as required by the switch to determine the output port for a certain input port. The power of the LANCOM ES-2126P+ is demonstrated by the size of the source address table: The switch stores and manages up to 8000 MAC addresses. The LANCOM ES-2126P+ is also custom designed for network virtualization: It integrates perfectly into LANCOM's Advanced Routing and Forwarding (ARF) and it supports up to 256 active VLANs.

More Efficiency.

Intelligent switches like the LANCOM ES-2126P+ can re-route data packets when network glitches occur. The rapid spanning tree algorithm takes care of this so fast that users do not notice any delay. Just as important as the rapid spanning tree algorithm is the efficient control of bandwidth. This ensures that important applications such as IP telephony are constantly provided with ample bandwidth to avoid interruptions to conversations. Conducting bandwidth control, the LANCOM ES-2126P+ prioritizes the data traffic according to predefined criteria (e.g. voice data or certain ports). The LANCOM ES-2126P+ has four-level prioritization to control the sequence of incoming and outgoing data traffic.

More Security.

The LANCOM ES-2126P+ gives you the assurance that rogue clients cannot use this switch to gain access to your network. Configuring 802.1x access control for all ports ensures that unauthorized devices plugged into a switch port cannot gain access to the network. The LANCOM ES-2126P+ also features rigorous defenses against attacks such as MAC flooding: The MAC address learning limit can be set individually and provides reliable protection from attacks that make your switch a bottle-neck that is incapable of functioning properly.

More Management.

The LANCOM ES-2126P+ stands for easy operability without compromise on security. It is easy to manage the switch with the clearly structured, user-friendly Webconfig. Port mirroring allows the close observation of network traffic. And there's yet more you can do: With the free LANCOM Management Tools LANconfig and LANmonitor, we offer not just direct access to the devices via Webconfig but also for direct observation of the ES-2126P+ in the network and monitoring of its functionality.

What's more...

The LANCOM ES-2126P+ rounds off your LANCOM network so that you benefit from a one-stop shop for first-class service. The ES-2126P+ seamlessly integrates into your existing infrastructure and benefits from monitoring with the free LANCOM Management Tools. Switch components such as the extremely quiet fans in the usual LANCOM high quality allow us to exceed legal warranty requirements and offer a 5-year warranty. And because we are certain that this switch will be operational for a long time to come, we have equipped it with future-ready hardware: You can optionally upgrade your switch with SFP modules. All of this comes to you with an optimal price/performance ratio.

LANCOM ES-2126P+

Quality of Service	
DiffServ/TOS	Port based (VIP Port), 802.1p, Priority queuing of packets based on DiffServ/TOS fields
Port priority	Supports four level priority queues to prioritize inbound and outbound traffic
Q-in-Q Tagging	Supports priority in a Q-in-Q
Security	
MAC address limitation	MAC address learning limit, to set up the maximum amount of MAC that each port can learn
802.1x	802.1x access control on all ports, user- or MAC-based
Broadcast Storm Control	Multicast/Broadcast/Unknown unicast storm suppression
Performance	
Switching technology	Store and forward with latency less than 5 µs
MAC addresses	Support of max 8K MAC addresses
Throughput	max. 8.8 Gbps on the backplane
Virtual Stacking Management (VSM)	Supports stacking of up to 16 devices, several switches can be managed via one ip address
VLAN	Port based and IEEE 802.1q tag based VLAN with up to 4,096 VLAN and up to 256 active VLANs; Supports ingress and egress packet filter in port based VLAN
802.3af Features	
Ports	24x 802.3af PoE ports
Power	185 Watt total power with dynamic load balancing on all ports (i.e. up to 15.4 watt for 12 ports or 7.7 watt for 24 ports)
Priorisation	Supports port based priority and PoE status setting
Status information	Monitoring via LED, displaying the actual power consumption per port in web interface
LAN protocols	
Link Aggregation Control Protocol (LACP)	2 Fast- and 1 Gigabit Ethernet groups, max 4 member per group, supports DA, SA and DA+SA MAC based trunking with automatic failover
Multicasting	Supports IGMP snooping including active and passive mode
Multicasting	Supports IGMP proxy and IGMPv3 snooping including active and passive mode
GVRP/GARP	802.1q with GVRP/GARP
Spanning Tree Protokoll (STP) / Rapid STP	802.1d/1w
Interfaces	
Serial interface	Serial configuration interface
Management	
TACACS+	Support of TACACS+ protocol for authentication, authorization and accounting (AAA) with reliable connections and encrypted payload. Authentication and authorization are separated completely. LANCOM access rights are converted to TACACS+ levels. With TACACS+ access can be granted per parameter, path, command (Telnet/SSH only) or functionality (WEBconfig or Telnet/SSH). Each access and all changes of configuration are logged. Access verification and logging of SNMP Get and Set requests. WEBconfig supports the access rights of TACACS+ and choice of TACACS+ server at login. Redundancy by setting several alternative TACACS+ servers. Configurable option to fall back to local user accounts in case of connection drops to the TACACS+ servers. Compatibility mode to support several free TACACS+ implementations
Port Mirroring	Support 1:N port mirroring, Sniffer functions with three modes: TX monitor-, RX monitor-, and TX-RX monitor mode
Security	Access rights (read/write) can be set up separately, access control list
SNMP	SNMP management via SNMPv1 or v2c and private MIB
RFC 1213 MIB (MIBII)	<ul style="list-style-type: none"> ■ Interface MIB ■ Address Translation MIB ■ IP MIB ■ ICMP MIB ■ TCP MIB ■ UDP MIB ■ SNMP MIB
RFC 1757 RMON MIB	<ul style="list-style-type: none"> ■ Statistics Group 1 ■ History Group 2 ■ Alarm Group 3 ■ Event Group 9
RFC 1493 Bridge MIB	supported
RFC 1643 Ethernet MIB	supported
WEBconfig	Integrated web server with setup wizard for the configuration via Internet browsers with HTTP or HTTPS

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Management	
LANconfig	Supported by LANconfig (LANCOM management software): automatic detection, display of device properties, opening of web configuration, upload of firmware files, saving and upload of configurations
Console	Configuration via command line with telnet or ssh
LANmonitor	Monitoring application for Microsoft Windows for (remote) surveillance and logging of the device and port status
Firmware update	Upload of firmware via TFTP
Hardware	
Power supply	Internal power supply unit (110–230 V, 50-60 Hz)
Environment	Temperature range 0–40°C; humidity 5–90%; non-condensing
Housing	Robust metal housing, 19" 1U (440 x 44 x 209 mm) with removable mounting brackets, network connectors on the front
Fans	2
Noise emission	< 32 dB(A)
Weight (complete product incl. packaging)	4.25 kg
Power consumption (max)	210 Watts
Declarations of conformity	
CE	EN 55022, EN 55024, EN 60950
Package content	
Manual	Printed Quick Installation Guide (DE/EN)
CD	CD with firmware, management software (LANconfig, LANmonitor, WLANmonitor) and documentation
Cable	Serial configuration cable, 1.5m
Cable	IEC power cord
19" brackets	Two 19" brackets for rackmounting
Support	
Warranty	5 years, support via Hotline and Internet KnowledgeBase
Advance Replacement	LANCOM Next Business Day Service Extension CPE, item no. 61411
Accessories	
1000Base-SX SFP module	LANCOM SFP-SX-LC1, item no. 61556
1000Base-LX SFP module	LANCOM SFP-LX-LC1, item no. 61557
Item numbers	
LANCOM ES-2126P+	61468

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