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LANCOM GS-2124

Managed layer-2 switch with 24 Gigabit Ethernet ports for high-performance networks

- 20x Gigabit-Ethernet and four combo ports (TP/SFP)

- Port-based QoS, 802.1p or TOS/DiffServ

- 802.1x authentication at all ports

- Easy management with WEBconfig and LANconfig

- Monitoring via SNMP and LANmonitor

- Quiet, long-life fan

- 5-year warranty on all components

LANCOM
Systems

This switch makes bandwidth bottlenecks a thing of the past for company networks: The LANCOM GS-2124 is a managed Gigabit Ethernet switch with 20x 10/100/1000 Mbps Gigabit Ethernet ports and four combo ports for fiber-optic cable connections. Data transfer at gigabit rates appreciably increases network data rates. The GS-2124 integrates seamlessly into your existing infrastructure and benefits from monitoring with the free LANCOM Management Tools. Switch components such as the extremely quiet fan in LANCOM's customary high quality allow us to offer a 5-year warranty.

More Efficiency.

Intelligent switches like the LANCOM GS-2124 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. When conducting bandwidth control, the LANCOM GS-2124 prioritizes the data traffic according to predefined criteria (e.g. voice data or certain ports). The LANCOM GS-2124 has four-level prioritization to control the sequence of incoming and outgoing data traffic.

More Security.

The LANCOM GS-2124 gives you the assurance that rogue clients cannot access your network via this switch. 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 GS-2124 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 would otherwise turn this switch into a dysfunctional bottle-neck.

More Management.

The LANCOM GS-2124 stands for easy operability without compromising on security. Managing the switch is easy 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 including LANconfig and LANmonitor, we offer not only direct access to the devices via WEBconfig but also the direct observation of the GS-2124's performance in the network. The GS-2124 also features virtual stacking management (VSM) that allows you to manage up to 16 switches at one IP address.

What's more...

LANCOM switches complete your LANCOM network: In order for the wireless virtual networks (VLANs) supported by our access points to match-up seamlessly to an external, cabled IPsec-based VPN, the switches at the junctions must be able to recognize the different VLANs and forward the data accordingly. LANCOM Managed Switches work with LANCOM Advanced Routing and Forwarding to form this connection. You benefit from convergent, professional networking technology from a single source.

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
QoS Control List	Provides four internal queues to support four different classifications of traffic; packets can be classified as VIP ports, 802.1p, DiffServ and/or IP TOS, IPv4 and UDP/TCP applications. The QoS operates at full wire speed and each egress port can be scheduled according to strict, weighted round robin or mixed.
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
Access control lists	Filtering of IP or MAC addresses and protocols - integrated setup assistant
Broadcast Storm Control	Multicast/Broadcast/Unknown unicast storm suppression
Isolated Group	Allows certain ports to be designated as protected. All other ports are non-isolated. Traffic between isolated group members ist blocked. Traffic can only be sent from isolated group to non-isolalted group.
Performance	
Switching technology	Store and forward with latency less than 5 µs
MAC addresses	Support of max 8K MAC addresses
Throughput	max. 48 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
Jumbo Frame Support	Jumbo frame support with up to 9k frames
LAN protocols	
Link Aggregation Control Protocol (LACP)	Maximum of 12 groups, max 12 member per group, supports DA, SA and DA+SA MAC based trunking with automatic failover
Multicasting	Supports IGMP snooping inkluding active and passive mode
GVRP/GARP	802.1q with GVRP/GARP
Spanning Tree Protokoll (STP) / Rapid STP / Multiple STP	802.1d/1w/1s
DHCP Relay Agent	DHCP Option 82 relay agent
Interfaces	
Ethernet ports	20 TP ports 10/100/1000 Mbps, 4 Combo ports TP/SFP 10/100/1000 Mbps
Serial interface	Serial configuration interface
Management	
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)	■ Interface MIB ■ Address Translation MIB ■ IP MIB ■ ICMP MIB ■ TCP MIB ■ UDP MIB ■ SNMP MIB
RFC 1757 RMON MIB	■ Statistics Group 1 ■ History Group 2 ■ Alarm Group 3 ■ Event Group 9
RFC 1493 Bridge MIB	completely
RFC 1643 Ethernet MIB	completely
Webconfig	Integrated web server with setup wizard for the configuration via Internet browsers with HTTP

Management	
LANconfig	Supported by LANconfig (LANCOM management software): automatic detection, properties, opening of web configuration
LANmonitor	Monitoring application for Microsoft Windows for (remote) surveillance and logging of the device and port status
Firmware update	Upload of firmware via TFTP or HTTP
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	< 25 dB(A)
Weight (complete product incl. packaging)	3.60 kg
Power consumption (max)	40 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), documentation and template in PDF format for individual designation label
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
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 GS-2124	61455