



## LANCOM GS-2352

Managed 52-port Gigabit Ethernet switch for reliable networks

The LANCOM GS-2352 is a reliable component for modern network infrastructures for any industry or application. Equipped with 48 Gigabit Ethernet ports and 4 SFP+ ports that support transfer rates of up to 10 Gbps, the LANCOM GS-2352 is the ideal solution for networking up to 52 devices. The numerous security features along with the high-performance hardware platform make this an indispensable device for your network, as it is the ideal choice for secure and reliable large-scale networks.

- 48x Gigabit Ethernet-Ports and 4x GE SFP+
- Security with configurable access control on all ports as per IEEE 802.1X
- Secure remote management through TACACS+, SSH, SSL, and SNMPv3
- Convenient integration into LANCOM monitoring systems
- IPv6 and IPv4 support for modern enterprise networks
- 5-year warranty on all components

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## High power output on 52 ports

The LANCOM GS-2352 is equipped with 48 Gigabit Ethernet ports and 4 SFP+ ports. With a data throughput of 176 Gbps on the backplane, it offers full performance even under load. This makes the switch a high-performance basis for modern network infrastructures in any industry or field of application.

## Configurable access control

The LANCOM GS-2352 excludes rogue clients from gaining unauthorized access to the network. This is ensured by secured access control on all ports as per IEEE 802.1X (port-based, single, multi, and MAC-based).

## Secure remote management

Secure communication protocols such as SSH, SSL and SNMPv3 mean that the LANCOM GS-2352 is ideal for professional remote network management. The switch also supports the TACACS+ protocol for authentication, authorization, and accounting. This optimized solution promises maximum security for multi-site network management and monitoring.

## Zero-touch deployment

Quick and easy network integration of the switch as well as automatic assignment of the configuration—without manual configuration. For installations based on the LANCOM Management Cloud, switch receives the correct configuration immediately after network authentication.

## IPv6 and IPv4 support

Thanks to the dual-stack implementation, the LANCOM GS-2352 operates in pure IPv4, pure IPv6, or in mixed networks. Applications such as SSL, SSH, Telnet, and TFTP can continue to be operated on IPv6 networks. Supported IPv6 features include stateless auto-configuration, the discovery of neighboring devices, and MLD snooping.

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Security	
Secure Shell Protocol (SSH)	SSH for a secure remote configuration
Secure Sockets Layer (SSL)	SSL to encrypt HTTP connections; advanced security for browser-based configuration via web interface
IEEE 802.1X	IEEE 802.1X access control on all ports; RADIUS for authentication, authorization and accounting with MD5 hashing; guest VLAN; dynamic VLAN assignment
IP source guard	Blocking access for illegal IP addresses on specific ports
Access control lists	Drop or rate limitation of connections based on source and destination MAC addresses, VLAN ID, IP address (IPv4/IPv6), protocol, port, DSCP/IP precedence, TCP/UDP source and destination ports, IEEE 802.1p priority, ICMP packets, IGMP packets, TCP flag
RADIUS/TACACS+	Authentication, authorization and accounting of configuration changes by RADIUS or TACACS+
Storm Control	Multicast/Broadcast/Unicast storm suppression
Isolated Group	Allows certain ports to be designated as protected. All other ports are non-isolated. Traffic between isolated group members is blocked. Traffic can only be sent from isolated group to non-isolated group.
Performance	
Switching technology	Store and forward with latency less than 4 microseconds
MAC addresses	Support of max 32K MAC addresses
Throughput	Max. 176 Gbps on the backplane
Maximum packet processing	130 million packets per second (mpps) at 64-byte packets
Single IP Management (SIP)	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 4,000 active VLANs; Supports ingress and egress packet filter in port based VLAN
Jumbo frame support	Jumbo frame support with up to 9k frames
Layer 2 switching	
Link Aggregation Control Protocol (LACP)	Support of 26 groups containing up to 4 ports each according to IEEE 802.3ad
VLAN	Support for up to 4K VLANs simultaneously (out of 4096 VLAN Ids); matching due to port, IEEE 802.1q tagged VLANs, and MAC addresses
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS
IGMP multicasts	IGMP v1, v2, v3 to limit bandwidth-intensive multicast traffic to ports with requesters; supports 1024 multicast groups; source-specific multicasting
IGMP querier	Support of multicast domains of snooping switches in the absence of a multicast router
IGMP proxy	IGMP proxy to pass IGMP messages through
Generic VLAN registration	VLAN registration with GVRP according to IEEE 802.1q for automatic delivery of VLANs in bridged domains
Spanning Tree Protokoll (STP) / Rapid STP / Multiple STP	Standard Spanning Tree according to IEEE 802.1d with fast convergence support of IEEE 802.1w (RSTP); using Multiple Spanning Tree instances by default according to IEEE 802.1s (MSTP)
DHCP Relay Agent	DHCP relay agent
Supported DHCP options	<ul style="list-style-type: none"> <li>&gt; DHCP option 66</li> <li>&gt; DHCP option 67</li> <li>&gt; DHCP option 82</li> </ul>
Interfaces	
Ethernet	<ul style="list-style-type: none"> <li>&gt; 48 TP ports 10/100/1000 Mbps</li> <li>&gt; 4 SFP+ ports 1/10 Gbps</li> <li>&gt; 52 concurrent Ethernet ports in total</li> </ul>
Console port	DB9 configuration port for command line access
Management and monitoring	
Management	LANconfig, WEBconfig, LANCOM Management Cloud
Monitoring	LANmonitor, LANCOM Management Cloud

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Management and monitoring	
Easy-Configuration-Ports	Easy setup of ports for QoS and Security based on pre-defined configuration profiles
Port Mirroring	Traffic can be mirrored from on port to another for investigation with network analyzer or RMON probe. Up to 51 ports can be mirrored to a single mirror port. Single sessions can be selected
Security	Access rights (read/write) can be set up separately, access control list
SNMP	SNMP management via SNMPv1, v2c or v3 with support of traps. User-based security model for SNMPv3 (USM)
Diagnosis	Diagnosis from the switch with PING and cable diagnosis
Command Line Interface (CLI)	Configuration and status display from the command line with console application and direct connection to console port, via Telnet or SSH
Remote Monitoring	Integrated RMON software agent supports 4 RMON groups (history, statistics, alarms and events) for enhanced traffic management, monitoring and analysis
Firmware update	<ul style="list-style-type: none"> <li>&gt; Update via WEBconfig and browser (HTTP/HTTPS)</li> <li>&gt; Update via TFTP and LANconfig</li> <li>&gt; Dual firmware image to update during operation</li> </ul>
Secure Copy	Securely import and export files
DHCP client	Automatic assignement of the management IP address by DHCP
SNTP	Automatic time settings with Simple Network Time Protocol (SNTP)
s-flow	Standard for monitoring of high-speed-networks. Visualization of network use, accounting an analysis to protect your network against dangers
Hardware	
Weight	9,04 lbs (4,1 kg)
Power supply	Internal power supply unit (110–230 V, 50-60 Hz)
Environment	Temperature range 0–40° C; humidity 10–90%; non-condensing
Housing	Robust metal housing, 19" 1U (442 x 44 x 385 mm > W x H x D) with removable mounting brackets, network connectors on the front
Fans	2
Power consumption (max)	65 watt
Declarations of conformity*	
CE	EN 60950-1, EN 55022, EN 55024
FCC	FCC Part 15 (CFR47) Class A
Country of origin	Software designed in Germany, Assembled in Taiwan
*) Note	You will find all declarations of conformity in the products section of our website at <a href="http://www.lancom-systems.com">www.lancom-systems.com</a>
Supported IEEE standards	
IEEE 802.1AB	Link Layer Discovery Protocol (LLDP)
IEEE 802.1AB	LLDP-MED
IEEE 802.1ad	Q-in-Q tagging
IEEE 802.1d	MAC Bridging
IEEE 802.1d	Spanning Tree
IEEE 802.1p	Class of Service
IEEE 802.1q	VLAN
IEEE 802.1s	Multiple Spanning Tree Protocol (MSTP)
IEEE 802.1w	Rapid Spanning Tree Protocol (RSTP)
IEEE 802.1X	Port Based Network Access Control
IEEE 802.3	10Base-T Ethernet

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Supported IEEE standards	
IEEE 802.3ab	1000Base-TX Ethernet
IEEE 802.3ad	Link Aggregation Control Protocol (LACP)
IEEE 802.3az	Energy Efficient Ethernet
IEEE 802.3u	100Base-T Ethernet
IEEE 802.3x	Flow Control
IEEE 802.3z	1000Base-X Ethernet
Supported RFC standards	
RFC 854	Telnet Protocol Specification
RFC 1213	MIB II
RFC 1215	SNMP Generic Traps
RFC 1493	Bridge MIB
RFC 1769	Simple Network Time Protocol (SNTP)
RFC2021	Remot Network Monitoring MIB v2 (RMONv2)
RFC 2233	Interface MIB
RFC 2460	Internet Protocol Version 6 (IPv6)
RFC 2613	SMON MIB
RFC 2617	HTTP Authentication
RFC 2665	Ethernet-Like MIB
RFC 2674	IEEE 802.1p and IEEE 802.1q Bridge MIB
RFC 2818	Hypertext Transfer Protocol Secure (HTTPS)
RFC 2819	Remote Network Monitoring MIB (RMON)
RFC 2863	Interface Group MIB using SMIv2
RFC 2933	IGMP MIB
RFC 3019	MLDv1 MIB
RFC 3414	User based Security Model for SNMPv3
RFC 3415	View based Access Control Model for SNMP
RFC 3587	IPv6 Global Unicast Address Format
RFC 3621	Power Ethernet MIB
RFC 3635	Ethernet-Like MIB
RFC 3636	IEEE 802.3 MAU MIB
RFC 4133	Entity MIBv3
RFC 4188	Bridge MIB
RFC 4251	The Secure Shell Protocol Architecture (SSH)
RFC 4291	IP Version 6 Addressing Architecture
RFC 4443	Internet Control Message Protocol (ICMPv6)
RFC 4668	RADIUS Authentication Client MIB
RFC 4670	RADIUS Accounting MIB
RFC 5519	Multicast Group Membership Discovery MIB
Scope of delivery	
Manual	Printed Installation Guide (DE/EN)

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Scope of delivery	
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
LANCOM Warranty Advanced Option L	Option to extend the manufacturer's warranty from 3 to 5 years and replacement of a defective device, item no. 10717
LANCOM Management Cloud	
LANCOM LMC-C-1Y LMC License	LANCOM LMC-C-1Y License (1 Year), enables the management of one category C device for one year via the LANCOM Management Cloud, item no. 50106
LANCOM LMC-C-3Y LMC License	LANCOM LMC-C-3Y License (3 Years), enables the management of one category C device for three years via the LANCOM Management Cloud, item no. 50107
LANCOM LMC-C-5Y LMC License	LANCOM LMC-C-5Y License (5 Years), enables the management of one category C device for five years via the LANCOM Management Cloud, item no. 50108
Accessories	
1000Base-SX SFP module	LANCOM SFP-SX-LC1, item no. 61556
1000Base-LX SFP module	LANCOM SFP-LX-LC1, item no. 61557
10GBase-SX SFP module	LANCOM SFP-SX-LC10, item no. 61485
Copper SFP module	LANCOM SFP-CO1, item no. 61494
LANCOM Power Chord (UK)	IEC power cord, UK plug, item no. 61650
LANCOM Power Chord (CH)	IEC power cord, CH plug, item no. 61652
LANCOM Power Chord (US)	IEC power cord, US plug, item no. 61651
LANCOM Power Chord (AU)	IEC power cord, AU plug, item no. 61653
Item number(s)	
LANCOM GS-2352	61472

