

# LANCOM CS-8132F

## 100G Fiber Core Switch for enterprise campus networks



As a central node in campus networks, the LANCOM CS-8132F core switch meets the requirements of today's and tomorrow's bandwidth-intensive applications. Especially for companies with many locations and very high data traffic, the 32 high-performance 100G wire-speed QSFP28 industry-standard ports with up to 6.4 Tbps switch capacity (full duplex) are the powerful backbone of the network. This makes the LANCOM CS-8132F ideal for use as a core switch in three-tier networks and for realizing switch architectures with 100% uptime. Intelligent functions such as Virtual Port Channel (VPC / MC-LAG), redundant and hot-swappable power supply and fan modules, a selectable ventilation concept, and a Limited Lifetime Warranty make this possible. If the switch is managed via the LANCOM Management Cloud, you benefit from standardized management and location-independent real-time monitoring of all network components. Alternatively, you can use the industry-standard Web GUI and CLI for network management.

- 100G core switch with 32x 100G QSFP28 ports for distributed campus networks
- Support of Virtual Port Channel (VPC or MC-LAG)
- Full layer 3 functionality thanks to VRRP, DHCP, static and policy-based dynamic routing via OSPF v2/v3 and BGP4
- Two variants available with different fan modules for front-to-back (F2B) or back-to-front (B2F) airflow for optimum cooling in 19" racks
- Including 2 redundant, hot-swappable PSU and 3 hot-swappable fans for maximum reliability
- Functional expansion option with integrated 64GB SSD for the use of third-party software such as monitoring applications (feature release after product launch)
- Secure remote management through TACACS+, SSH, SSL, and SNMPv3
- Industry standard CLI
- Cloud-managed LAN for a convenient management via the LMC
- LANCOM Limited Lifetime Warranty (LLW) included



# LANCOM CS-8132F

## High-performance three-tier networks in the campus environment

From 10G access switches and 10G/25G aggregation switches to the 100G core switch: With the LANCOM switch portfolio, you can implement modern three-tier LAN infrastructures, as required in larger campus networks. As the powerful backbone of the network, the LANCOM CS-8132F core switch serves up to 60,000 ports in high-availability network designs with VPC, and even up to 460,000 ports simultaneously in conjunction with stackable access switches and a predictable maintenance window. It performs non-blocking switching tasks on layer 2 (data link layer) and routing tasks on layer 3 (the network or switching layer) and thus forwards data packets with maximum efficiency and latency-free (packet forwarding).

## 100G performance with 32 industry-standard ports

The LANCOM CS-8132F with 32x QSFP28 ports (100G) offers the necessary wire-speed performance of 3.2 Tbit/s and corresponding switch capacity of 6.4 Tbit/s in full duplex mode for the construction of a future-proof, three-tier campus network. It provides sufficient performance to do justice to the advancing digitalization. With a view to minimizing the total cost of ownership (TCO), this LANCOM switch comes with an operating software that is not limited in its lifetime. In addition, all ports of the LANCOM CS-8132F are natively available and comply with the industry standard. This eliminates the need for a costly modular design, and no proprietary accessories are required when switching to LANCOM core switches.

## Network design with 100% uptime via VPC / MC-LAG

Virtual Port Channel (VPC), or Multi-chassis Link Aggregation Group (MC-LAG), is the preferred solution for increasing the reliability of large network infrastructures. If you link two LANCOM CS-8132F in a VPC network and connect the underlying network components redundantly, the other switch remains active in the event of a failure or during in-service software update (ISSU) of one of the VPC-connected switches, thus ensuring 100% uptime. This is possible because both switches remain physically independent devices that merely form a virtual network. In addition, the link speed of the underlying network components is multiplied, as a VPC network allows multiple connections to the underlying level (active/active). For constant data forwarding, the switches exchange important information about the network, such as MAC tables, via their peer link.

## Maximum operational reliability with redundancies and airflow design

The LANCOM CS-8132F is equipped as standard with 2 hot-swappable power supply units for fast and uninterrupted replacement. Additional load capacity is provided by three replaceable fans (n+1 redundancy). These can also be removed during operation. The switch achieves optimum cooling performance in the rack environment thanks to two hardware variants with different airflow designs and matching power supply units and fans: With a front-to-back or back-to-front airflow direction (F2B variant / B2F variant), the LANCOM CS-8132F meets the different cooling requirements. This extends the service life of the product and increases the flexibility of use.



# LANCOM CS-8132F

## **Cloud-managed LAN and switch stacking**

With the LANCOM Management Cloud (LMC) and Cloud-managed LAN, the LANCOM CS-8132F offers quick and easy network integration as well as automatic provision of the configuration across locations with the click of a mouse. Time-consuming individual device and switch port configurations are now a matter of the past. The targeted switch rollout via the LMC enables automatic VLAN assignment to switch ports including practical switch port profiles and therefore “zero-touch” assignment to the devices. Secure Terminal Access provides access to the command line of the LANCOM switch (“CLI tunneling”) directly from the LANCOM Management Cloud – encrypted and without leaving the cloud interface. Secure Terminal Access provides expert functions as well as extensive diagnostic and troubleshooting commands for the devices.

## **Configurable access control and secure remote management**

The LANCOM CS-8132F stops 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) or by ACLs (access control lists). Thanks to secure communication protocols such as SSH, SSL, and SNMPv3, professional remote management of the network is possible. 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.

## **Maximum future-proofing and digital sovereignty**

As an established German manufacturer of IT network solutions, LANCOM stands for reliability and know-how. Software and hardware development as well as production take place primarily in Germany, as does the hosting of the network management. Special attention is given to providing trusted solutions with outstanding security features. Another important security characteristic of the products is that they are free from backdoors, as awarded by the German Federal Ministry of Economy with the quality seal “IT Security made in Germany”. All devices are always equipped with hardware that is dimensioned for the future. Even across product generations, updates to the LANCOM operating system family are available several times a year, free of charge. This guarantees a long service life while staying technically up to date, which represents a true protection of your investment. In addition, LANCOM infrastructures are easily scalable thanks to maximum compatibility.

## **Limited Lifetime Warranty (LLW)**

This enterprise switch is reliably covered ex factory by the LANCOM Limited Lifetime Warranty. Regardless of the switch's operating time, the replacement service is valid until the End of Life status of the device (max. 10 years).

For perfect complement: Ensure minimal downtime in the event of a hardware defect with next-business-day delivery of a replacement device. We recommend LANcare NBD Replacement or in combination with guaranteed service times LANcare Direct Advanced 24/7 or 10/5. Learn more in the Infopaper LANCOM Limited Lifetime Warranty



# LANCOM CS-8132F

## 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 e.g. MD5 hashing; guest VLAN; dynamic VLAN assignment  |
| Private VLAN edge           | Layer 2 isolation between clients in the same VLAN ("protected ports"); support multiple uplinks   |
| Port security               | Locking of MAC addresses to ports; limiting of the number of learned MAC addresses   |
| 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. Support of 1023 ACEs (max. rules per list) per ACL and up to 2800 entries in total. |
| 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.   |
| DHCP Snooping               | Protection against rogue DHCP servers on the network - Outgoing DHCP-server packets are only allowed on specific ports.  |
| Dynamic ARP Inspection      | Dynamic ARP Inspection to prevent man-in-the-middle attacks incl. proxy ARP  |
| ARP Request Poisoning       | Protection against ARP Request Poisoning (ARP Spoofing)  |
| IPv6 First Hop              | IPv6 First Hop Security by Snooping Guard, DHCPv6 Guard, Source Guard, Prefix Guard  |
| Denial-of-Service           | Protection against Denial-of-Service attacks to prevent the loss of important protocol functions   |

## Performance

|                           |   |
|---------------------------|---|
| Switching technology      | Store and forward with latency less than 4 microseconds   |
| MAC addresses             | Support of max 131K MAC addresses   |
| Throughput                | Max. 3200 Gbps on the backplane   |
| Maximum packet processing | 2381 million packets per second (mpps) at 64-byte packets   |
| VLAN                      | Port based and IEEE 802.1q tag based VLAN with up to 4,093 VLAN; Supports ingress and egress packet filter in port based VLAN |
| Jumbo frame support       | Jumbo frame support with up to 12288 bytes  |



# LANCOM CS-8132F

## Performance

|                |  |
|----------------|--|
| Packet Buffer  | 32 MB  |
| 6in4 Tunneling | Support of encapsulation of IPv6 traffic in IPv4 packets |

## Layer 3 features

|                                |   |
|--------------------------------|---|
| Number of L3 interfaces        | max. 168k at IPv4, max. 100k at IPv6  |
| Number of L3 multicast groups  | 16k   |
| Static routing (IPv4/IPv6)     | Hardware based static routing (IPv4/IPv6) with a number of 16,000 possible routes |
| DHCP Server                    | DHCP Server per VLAN, max. 16 pools   |
| VRRP                           | Virtual Router Redundancy Protocol  |
| VRF                            | Virtual Routing and Forwarding (max. quantity 4k)                                 |
| Dynamic routing (IPv4/IPv6)    | dynamic routing by OSPFv2, OSPFv3 and BGP4  |
| Protocol Independent Multicast | PIM-Sparse mode (PIM-SM) and PIM-Dense mode (PIM-DM)                              |
| Source specific multicast      | Source specific multicast (SSM)for IP   |

## Layer 2 switching

|   |   |
|---|---|
| Spanning Tree Protokoll (STP) / Rapid STP / Multiple STP / PVST | 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), PVST with up to 8 instances |
| Link Aggregation Control Protocol (LACP)                        | Support of 64 groups containing up to 32 ports each according to IEEE 802.1ax   |
| Virtual port channel VPC  | VPC (also known as MLAG) for details refer to VPC CLI manual and design guide   |
| VLAN  | Support for up to 4K VLANs simultaneously (out of 4093 VLAN Ids); matching due to port, IEEE 802.1q tagged VLANs, MAC addresses, IP subnet and Private VLAN Edge function ("protected ports")                       |
| 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 Snooping   | IGMP Snooping to identify multicast groups and prevent unnecessary traffic  |
| IGMP proxy  | IGMP proxy to pass IGMP messages through  |
| MLD v1/v2   | Multicast Listener Discovery - IPv6 multicast packets are transmitted to interested listeners only  |



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## Layer 2 switching

|                           |   |
|---------------------------|---|
| Generic VLAN registration | VLAN registration with GVRP according to IEEE 802.1q for automatic delivery of VLANs in bridged domains |
| DHCP Relay Agent          | Relay of DHCP broadcast request to different LANs   |
| Supported DHCP options    | all options listed in RFC2132   |

## Interfaces

|                             |   |
|-----------------------------|---|
| Ethernet                    | → 32 QSFP28 ports 40/100 Gbps<br>→ up to 32 concurrent ports      |
| Console port                | RJ45 configuration port for command line access                   |
| Out of band management port | Out of Band Management via Ethernet Port (SSH, HTTP/S, SCP, SFTP) |

## Management and monitoring

|                              |  |
|------------------------------|--|
| Management                   | LANconfig, WEBconfig, LANCOM Management Cloud, Industry Standard CLI   |
| 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   |
| Monitoring                   | LANmonitor, LANCOM Management Cloud  |
| Remote Monitoring            | Integrated RMON software agent supports 4 RMON groups (history, statistics, alarms and events) for enhanced traffic management, monitoring and analysis  |
| Port Mirroring               | Traffic can be mirrored from on port to another for investigation with network analyzer or RMON probe. Up to 31 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  |
| Firmware update              | → Update via WEBconfig and browser (HTTP/HTTPS)<br>→ Update via TFTP, SCP, and LANconfig<br>→ Update via LANCOM Management Cloud<br>→ Dual firmware image to update during operation           |
| Secure Copy                  | Securely import and export files   |
| DHCP client                  | Automatic assignment of the management IP address by DHCP  |
| SNTP                         | Automatic time settings with Simple Network Time Protocol (SNTP)   |
| s-flow v5                    | Standard for monitoring of high-speed-networks. Visualization of network use, accounting an analysis to protect your network against dangers   |



# LANCOM CS-8132F

## Management and monitoring

|           |  |
|-----------|--|
| s-flow v5 | Hardware implementation of s-Flow - Standard for monitoring of high-speed-networks. Visualization of network use, accounting an analysis to protect your network against dangers |
|-----------|--|

## Hardware

|   |  |
|---|--|
| Processor (CPU)   | Intel Denverton4-Core with 1.6GHz  |
| Memory  | 8GB DDR4   |
| Storage   | 64GB SSD   |
| Weight  | 17.32 lbs (7.44 kg)  |
| Power supply  | Two bays for swappable power supply units (100 – 240 V, 50 – 60 Hz)  |
| Environment   | Temperature range 0 – 40° C; humidity 10 – 90%; non-condensing   |
| Housing   | Robust metal housing, 19" 1U (446 x 43.8 x 480 mm > W x H x D) with removable mounting brackets, network connectors on the front   |
| Fans  | 3 (swappable—replace defective fans within 48 hours to protect device from possible damage / time required for replacement approx. 2 min)<br>Exchange fan "LANCOM SFAN-CS8" optionally available |
| Power consumption (max., incl. optical transceiver modules) | 310 W  |
| Power consumption (idle)                                    | 90 W   |
| Acoustic noise (typ)  | 65 dBa   |
| Heat power (max)  | 1060 BTU/h   |

## Software

|                      |   |
|----------------------|---|
| LCOS version         | based on LCOS SX 5.30   |
| Lifecycle Management | After discontinuation (End of Sale), the device is subject to the LANCOM Lifecycle Management. Details can be found at: <a href="http://www.lancom-systems.com/lifecycle">www.lancom-systems.com/lifecycle</a>  |
| Anti-backdoor policy | Products from LANCOM are free of hidden access paths (backdoors) and other undesirable features for introducing, extracting or manipulating data. The trust seal "IT Security made in Germany" (ITSMIG) and certification by the German Federal Office for Information Security (BSI) confirm the trustworthiness and the outstanding level of security |

## Declarations of conformity\*

|               |        |
|---------------|--------|
| Europe/EFTA   | CE     |
| North America | FCC/IC |



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## Declarations of conformity\*

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|                         |      |
|-------------------------|------|
| Australia / New Zealand | ACMA |
|-------------------------|------|

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\*) Note

The full text of the specific Declaration of Conformity is available at the following Internet address:  
[www.lancom-systems.com/doc](http://www.lancom-systems.com/doc)

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## Supported IEEE standards

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|              |                                      |
|--------------|--------------------------------------|
| IEEE 802.1AB | Link Layer Discovery Protocol (LLDP) |
|--------------|--------------------------------------|

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|              |          |
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| IEEE 802.1AB | LLDP-MED |
|--------------|----------|

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|              |                |
|--------------|----------------|
| IEEE 802.1ad | Q-in-Q tagging |
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|              |   |
|--------------|---|
| IEEE 802.1ak | MRP and MVRP - Multiple Registration Protocol and Multiple VLAN Registration Protocol |
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|             |              |
|-------------|--------------|
| IEEE 802.1d | MAC Bridging |
|-------------|--------------|

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|             |               |
|-------------|---------------|
| IEEE 802.1d | Spanning Tree |
|-------------|---------------|

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|             |                  |
|-------------|------------------|
| IEEE 802.1p | Class of Service |
|-------------|------------------|

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|             |      |
|-------------|------|
| IEEE 802.1q | VLAN |
|-------------|------|

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|             |  |
|-------------|--|
| IEEE 802.1s | Multiple Spanning Tree Protocol (MSTP) |
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|             |                                     |
|-------------|-------------------------------------|
| IEEE 802.1w | Rapid Spanning Tree Protocol (RSTP) |
|-------------|-------------------------------------|

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|             |                                   |
|-------------|-----------------------------------|
| IEEE 802.1X | Port Based Network Access Control |
|-------------|-----------------------------------|

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|            |                   |
|------------|-------------------|
| IEEE 802.3 | 10Base-T Ethernet |
|------------|-------------------|

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|              |                      |
|--------------|----------------------|
| IEEE 802.3ab | 1000Base-TX Ethernet |
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|-----------------------------|--|
| IEEE 802.1ax, incl. 802.3ad | Link Aggregation Control Protocol (LACP) |
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|              |                                |
|--------------|--------------------------------|
| IEEE 802.3ae | 10 Gigabit Ethernet over fiber |
|--------------|--------------------------------|

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|              |                     |
|--------------|---------------------|
| IEEE 802.3bz | 2.5GBASE-T Ethernet |
|--------------|---------------------|

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|                   |                    |
|-------------------|--------------------|
| IEEE 802.3ba, 40G | 40GBase-X Ethernet |
|-------------------|--------------------|

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|                    |                     |
|--------------------|---------------------|
| IEEE 802.3ba, 100G | 100GBase-X Ethernet |
|--------------------|---------------------|

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|             |                    |
|-------------|--------------------|
| IEEE 802.3u | 100Base-T Ethernet |
|-------------|--------------------|

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|             |              |
|-------------|--------------|
| IEEE 802.3x | Flow Control |
|-------------|--------------|

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|             |                     |
|-------------|---------------------|
| IEEE 802.3z | 1000Base-X Ethernet |
|-------------|---------------------|

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|              |              |
|--------------|--------------|
| IEEE 802.3ac | VLAN tagging |
|--------------|--------------|

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# LANCOM CS-8132F

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## Supported IEEE standards

|                   |  |
|-------------------|--|
| IEEE 802.3bj-CL91 | Forward Error Correction (FEC)                                 |
| IEEE 802.1ak      | Multiple Registration Protocol (MRP)                           |
| IEEE 802.1as      | Timing and Synchronization for Time-Sensitive LANs             |
| IEEE 802.1Qat     | Multiple Stream Reservation Protocol (MSRP)                    |
| IEEE 802.1Qav     | Forwarding and Queuing Enhancements for Time-Sensitive Streams |
| IEEE 802.1Qbb     | Priority-based Flow control                                    |
| IEEE 802.1v       | Protocol-based VLANs   |

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## Supported RFC standards

|          |  |
|----------|--|
| RFC 854  | Telnet Protocol Specification              |
| RFC 1213 | MIB II                                     |
| RFC 1493 | Bridge MIB                                 |
| RFC 1534 | Interoperation between DHCP and BootP      |
| RFC 2021 | Remote Network Monitoring MIB v2 (RMONv2)  |
| RFC 2233 | Interface MIB                              |
| RFC 2453 | Routing Information Protocol - RIPv2       |
| RFC 2460 | Internet Protocol Version 6 (IPv6)         |
| RFC 2613 | SMON MIB                                   |
| RFC 2618 | RADIUS Authentication Client MIB           |
| RFC 2674 | IEEE 802.1p and IEEE 802.1q Bridge MIB     |
| RFC 2737 | Entity MIB v2                              |
| 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 3273 | RMON Groups 1,2,3 and 9                    |



# LANCOM CS-8132F

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## Supported RFC standards

|          |  |
|----------|--|
| 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 3636 | IEEE 802.3 MAU MIB   |
| RFC 3973 | Protocol Independent Multicast -Dense mode (PIM-DM) (supports both IPv4 and IPv6)  |
| RFC 4251 | The Secure Shell Protocol Architecture (SSH)                                       |
| RFC 4291 | IP Version 6 Addressing Architecture   |
| RFC 4443 | Internet Control Message Protocol (ICMPv6)   |
| RFC 4541 | IGMP Snooping and MLD Snooping   |
| RFC 4541 | IGMP- and MLD-Snooping   |
| RFC 4601 | Protocol Independent Multicast -Sparse mode (PIM-SM) (supports both IPv4 and IPv6) |
| RFC 5171 | Unidirectional Link Detection Protocol (UDLD)                                      |
| RFC 5519 | Multicast Group Membership Discovery MIB   |

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## Scope of delivery

|                |  |
|----------------|--|
| Manual         | Hardware Quick Reference (DE/EN), Installation Guide (DE/EN) |
| Cable          | Serial configuration cable, 1.5m                             |
| Cable          | 2 IEC power cord   |
| Power supply   | 2 hot-swappable power supplies                               |
| Fan units      | 3 hot-swappable fan units                                    |
| 19" brackets   | Two 19" brackets for rackmounting                            |
| 19" rack rails | Two 19" rack rails for racks of max. 80cm depth              |

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## Support

|                    |  |
|--------------------|--|
| Warranty extension | LANCOM Limited Lifetime Warranty – replacement service up to the End of Life status of the device (maximum 10 years). For details, please refer to the service and support conditions at: <a href="http://www.lancom.de/www.lancom-systems.com/support-conditions">www.lancom.de/www.lancom-systems.com/support-conditions</a> and in the LLW info paper at <a href="http://www.lancom-systems.com/infopaper-llw">www.lancom-systems.com/infopaper-llw</a> |
| Security Updates   | Up to the End of Life of the device (see <a href="http://www.lancom-systems.com/product-tables">www.lancom-systems.com/product-tables</a> )  |



# LANCOM CS-8132F

## Support

|                                  |  |
|----------------------------------|--|
| Software Updates                 | Regular free updates including new features as part of the LANCOM Lifecycle Management ( <a href="http://www.lancom-systems.com/lifecycle">www.lancom-systems.com/lifecycle</a> )  |
| Manufacturer support             | For LANcommunity partners up to the End of Life of the device. For end customers with LANcare Direct or LANcare Premium Support during the LANcare validity  |
| LANcare Direct 24/7 Advanced XXL | Direct, prioritized 10/5 manufacturer support incl. 24/7 emergency hotline and security updates for the device, NBD advance replacement with delivery of the device on the next business day (24/7/NBD), guaranteed first response times (SLA) of max. 30 minutes for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10797, 10798 or 10799) |
| LANcare Direct 24/7 XXL          | Direct, prioritized 10/5 manufacturer support incl. 24/7 emergency hotline and security updates for the device, guaranteed first response times (SLA) of max. 30 minutes for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10791, 10792 or 10793)  |
| LANcare Direct Advanced 10/5 XXL | Direct, prioritized 10/5 manufacturer support and security updates for the device, NBD advance replacement with delivery of the device on the next business day (10/5/NBD), guaranteed first response times (SLA) of max. 2 hours for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10794, 10795 or 10796)                                 |
| LANcare Direct 10/5 XXL          | Direct, prioritized 10/5 manufacturer support and security updates for the device, guaranteed first response times (SLA) of max. 2 hours for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10788, 10789 or 10790)  |
| LANcare NBD Replacement XXL      | Addition of the Limited Lifetime Warranty with NBD advance replacement with delivery of the device on the next business day in case of hardware defect, item no. 61324   |

## LANCOM Management Cloud

|                             |  |
|-----------------------------|--|
| LANCOM LMC-D-1Y LMC License | LANCOM LMC-D-1Y License (1 Year), enables the management of one category D device for one year via the LANCOM Management Cloud, item no. 50109     |
| LANCOM LMC-D-3Y LMC License | LANCOM LMC-D-3Y License (3 Years), enables the management of one category D device for three years via the LANCOM Management Cloud, item no. 50110 |
| LANCOM LMC-D-5Y LMC License | LANCOM LMC-D-5Y License (5 Years), enables the management of one category D device for five years via the LANCOM Management Cloud, item no. 50111  |

## Accessories\*

|   |                                       |
|---|---------------------------------------|
| 40GBase-SX SFP transceiver transceiver module | LANCOM SFP-SR-MPO40, Art.-Nr.: 60173  |
| 40GBase-LX SFP transceiver module             | LANCOM SFP-LR-LC40, Art.-Nr.: 60174   |
| 100GBase-LR4 SFP transceiver module           | LANCOM SFP-LR-LC100, Art.-Nr.: 60205  |
| 100GBase-SR4 SFP transceiver module           | LANCOM SFP-SR-MPO100, Art.-Nr.: 60206 |



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## Accessories\*

|                                  |   |
|----------------------------------|---|
| 40G Direct Attach Cable 1m       | LANCOM SFP-DAC40-1m, Art.-Nr.: 60176  |
| 40G Direct Attach Cable 3m       | LANCOM SFP-DAC40-3m, Art.-Nr.: 60177  |
| 100G Direct Attach Cable 1m      | LANCOM SFP-DAC100-1m, Art.-Nr.: 60203   |
| 100G Direct Attach Cable 3m      | LANCOM SFP-DAC100-3m, Art.-Nr.: 60204   |
| Power supply (swappable)         | LANCOM SPSU-750-F2B or LANCOM SPSU-750-B2F, item no. 61920 , 61921                  |
| Fan(swappable)                   | LANCOM SFAN-CS8-F2B oder LANCOM SFAN-CS8-B2F, item no. 61916 , 61917                |
| LANCOM Power Cord US, AU, UK, CH | IEC power cord for US, AU, UK, CH available on request                              |
| *) Note                          | Support for third-party accessories (SFP and DAC) is excluded and cannot be granted |

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## Item number(s)

|                     |       |
|---------------------|-------|
| LANCOM CS-8132F-F2B | 61909 |
| LANCOM CS-8132F-B2F | 61910 |



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