Art.-Nr.: 221097
Herst.-Nr.: ALL-SGC5410PM-10G

ALLNET Apollo full managed Layer2+ 10Port • 8x 2.5GB • PoE Budget 240W • 8x PoE at • 2x SFP+ • Apollo • ALL-SGC5410PM-10G

>>> Zum Shop-Artikel

EAN CODE

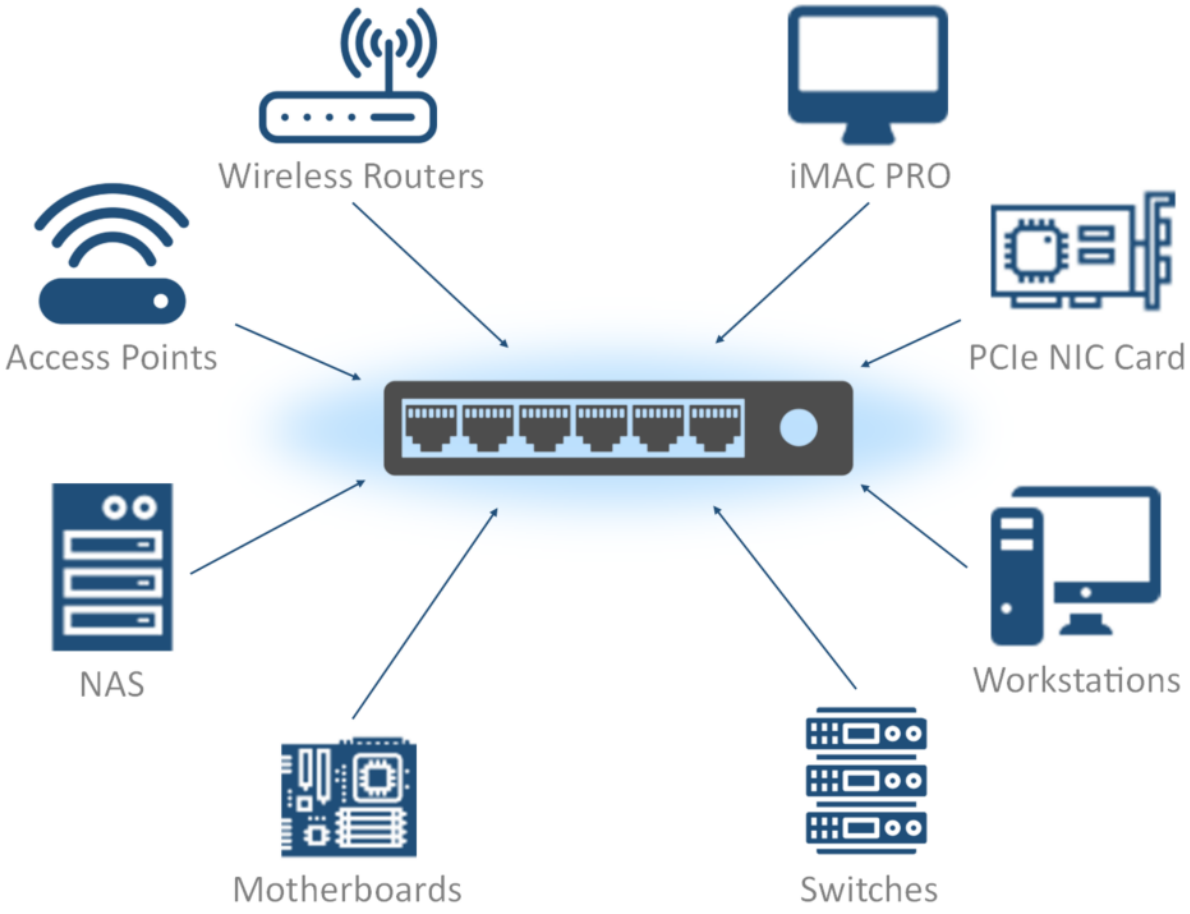
4 0 3 8 8 1 6 2 2 1 0 9 4

Highlights:

- 8x 2.5GbE PoE Ports
- 2x SFP+ 10G Ports for Uplink
- Support PoE IEEE802.3af / at with max. 30W per Port
- PoE Budget 240W
- Supports Jumbo Frames
- Support IGMP snooping v1/v2/v3
- Support Link aggregation
- Support Loop protection
- Support Spaning Tree Protocoll (STP) and Rapid Spanning Tree (RSTP)
- Funktioniert als eigenständiger Switch oder mit Apollo Controller (siehe ALL-AC100)

Es gibt immer mehr Anwendungen, die einen schnelleren Ethernet-Switch benötigen. ALLNET Apollos MultiG Switches unterstützen schnellere Wi-Fi 6/6E/7 APs, beschleunigen große Datei-Uploads und -Downloads, machen Videokonferenzen flüssiger und verhindern Jitter.

2.5G / 10G Devices Ecosystem



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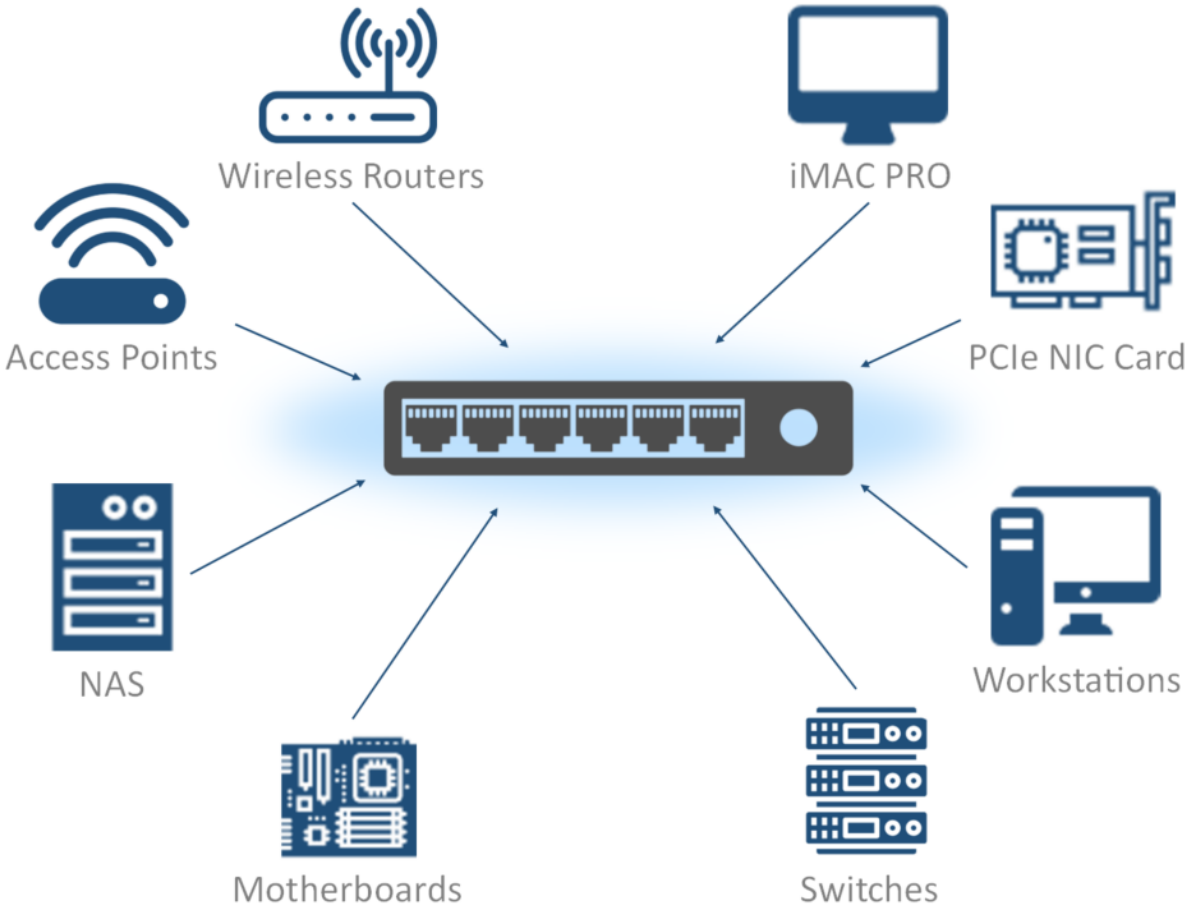


Application

Multi-GE


Gaming PC
Storage NAS
LIVE
Wi-Fi 6/6E/7
PS5
Video Editing
Streaming Video

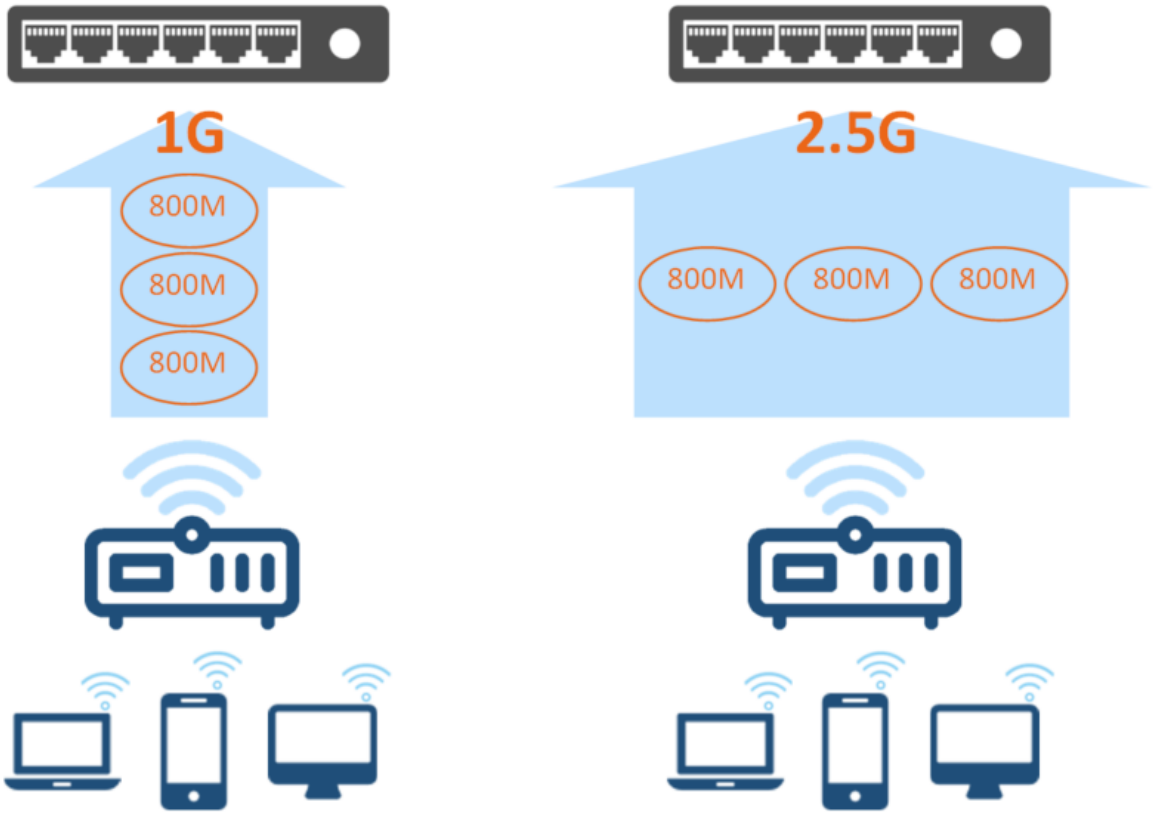
Feature

Die Uplink-Bandbreite von WLAN-APs wurde von 2,5 Gbit/s in 802.11ac auf 5 Gbit/s oder 10 Gbit/s erhöht. Herkömmliche Gigabit-Zugänge können die Uplink-Bandbreitenanforderungen von APs nicht erfüllen. Die Multi-GE-Switches von Emplus unterstützen 100M*/1/2,5Gbps und sogar 5G/10Gbps (SMX-Serie) Auto-Sensing und erfüllen damit die Bandbreitenanforderungen von Hochgeschwindigkeits-Wireless-APs in der Wi-Fi 6-Ära. Als Antwort auf den Wi-Fi-Standard der nächsten Generation (Wi-Fi 7) wird die Multi-GE-Switch-Familie von Emplus mit Wi-Fi 7-Funktionen in Kürze erhältlich sein.

Multi-GE-Switch-Ports mit Auto-Negotiation für Geschwindigkeiten von 100Mbps, 1Gbps, 2,5Gbps und 5Gbps über bestehende Cat5e-Kabel und bis zu 10-Gbps über neuere Cat6a-Kabel (siehe Tabelle unten).

Cable	1 G	2.5G	5 G	10G
Cat5e	•	•	•	N/A
Cat6	•	•	•	• (55m)
Cat6a	•	•	•	•

*100Mbps unterstützt keinen Halbduplexmodus



Spanning Tree Protokoll (STP)

Unterstützt Standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) für schnellere Konvergenz.

Loop protection

Wenn der Switch eine Schleife erkennt, sperrt er den Quellport für die Weiterleitung von Datenpaketen, die vom Switch stammen, um Broadcast Storms zu vermeiden.

Jumbo-Frame-Unterstützung

Unterstützt bis zu 10K Bytes Frame-Größe zur Verbesserung der Leistung bei großen Datenübertragungen.

IGMP-Snooping v1/v2/v3

Verbessert die Netzwerkleistung durch Multicast-Filterung, anstatt den Datenverkehr auf allen Ports zu überfluten.

Link-Aggregation

Fasst mehrere Ports bis zu einem Maximum von acht (8) Ports pro Trunk automatisch mit dem Link Aggregation Control Protocol (LACP) zusammen.

Software Features - Apollo

System Information
System Name
System Location
System Contact
System System Features
IPv4 Settings -IP address / Subnet mask -DHCPv4
IPv6 Settings -Global address -Link-local address -DHCPv6
Domain Name System (DNS) -IPv4 (Support 4 Servers)
Port
Port Configuration -Speed configuration -Flow control (802.3x, back pressure) -Port description (support 128 bytes) -Port extend mode
IEEE 802.3az Energy Efficient Ethernet (EEE)
L2
MAC Address Table -MAC address table (16K) -Age Time -Static MAC address
Jumbo Frame -Per-Port/Per-system (9216 bytes)
Spanning Tree -802.1w rapid spanning tree -802.1s multiple spanning tree -MSTP instance (16 instances) -Per device BPDU forward -Per port BPDU forward -Per port BPDU Filter -Per port BPDU Guard -Per port Root Guard -Edge port mode

-Point to Point mode -Per port admin state

L2
Loopback detection -STP independent + port base shutdown only
Multicast Filtering -Unknown Multicast Drop (unregistered multicast filtering) -Unknown Action-Drop/Flood/Router Port
Multicast Group -Support Max. multicast group (256 groups)
IGMP Multicast Forwarding -MAC Group Address FDB
IGMP Snooping -Support v1, v2, v3 awareness -IGMP snooping fast leave (per-vlan) -IGMP querier -Dynamic router port -Static/Forbidden router
MLD Multicast Forwarding -MAC Group Address FDB -IP Group Address FDB
MLD Snooping -Support v1 -MLD snooping fast leave (per-vlan) -MLD querier -Dynamic router port -Static/forbidden router
802.3ad Link Aggregation -Static Trunk Max. 8 ports/group Max. 8 groups per device -Dynamic Trunk (LACP) Max. 8 ports/group Max. 8 groups per device -Load Balance Algorithm (source/destination MAC, VLAN, EtherType, source/destination IP address, TCP/UDP ports) -LA description
802.1ab Link Layer Discovery Protocol (LLDP)

EOAM

-SFP information, SFP+ DDM -Cable diagnostic -Port statistics
DHCP
IPv4 DHCP Relay -DHCP Relay -Max. IPv4 DHCP servers -Option82 Status -Option82 Strategy (Keep/Replace/Drop)
IPv4 DHCP Snooping -DHCP Snooping -Binding list -Statistics
VLAN
802.1Q Support
VLAN Group -VID from 1-4094 (Max. 256 VLAN groups)
GVRP -Dynamic VLAN groups -Per port / device enable / disable -VLAN advertisement
Voice VLAN
L3 Interface
Multiple IP Interface -Max. 4 IP interfaces -Max. 4 Ip v4 address -20 IPv6 address (shared for both link local and global address)
ARP Table -Max. 192 ARP entries
Static ARP -Static 192 ARP entries (Share with ARP Table)
ARP Age Time
IPv6 Neighbor Discovery Table -Max. 42 ND entries
Static IPv6 Neighbor Discovery -Static 42 ND entries (Share with IPv6 Neighbor Discovery Table)

L3 Routing
IPv4 Static Route and Default Route -Max. 63 entries
IPv4 Default Route

-Max. 1 entry
IPv4 Route Table
IPv6 Static Route -Max. 21 entries
IPv6 Default Route -Max. 1 entry
IPv6 Route Table
Interface specific select -Per VLAN
RIP
OSPF
L3 IP Multicast
IGMP -IP group address FDB
MLD -IP group address FDB
QoS
Trust Mode -Cos/802.1p -DSCP -CoS/802.1p-DSCP
Per Port Trust Mode -Enable-follow the global trust type -Disable-Always go to the lowest priority queue.
Queue -Number of priority queues supported-8
CoS Mapping
CoS Based on 802.1p Priority
CoS Based on Physical Port
CoS Based on DSCP/TOS
Scheduling Mechanism -Strict/WRR/Strict + WRR
Queue Weight Bandwidth
Bandwidth Control -Rate limit according to network speed 16kbps~1000Mbps-in step of 16kbps
Advanced QoS

Security
802.1X Authentication Protocol -Local/RADIUS/TACACS+
802.1X Port-based Access Control
802.1X Authenticated Hosts
802.1X Guest VLAN
RADIUS-VLAN assignment
EAP/RADIUS of Port Statistics
Port Security (Limited Dynamic Lock)
Storm Control -Support broadcast/unknown multicast/unknown unicast 16kbps~1000Mbps - in step of 16kbps
Port Isolation (Protected Ports)
DOS Attack Prevention
Access Control List (ACL) -Ingress/Egress -MC Based ACL -IPv4 Based ACL -IPv6 Based ACL -MAC Range Mode -IP Range Profile -ACL Binding -Action-Permit/Deny/Shutdown/Rate Limit
Management VLAN
Radius Server -IPv4 / IPv6 / hostname(IPv4)
AAA
Login Authentication List -Local -Telnet/HTTP
Security Password -Requires a user to generate a new means of authentication before access is granted to the device for the first time.
PoE management -Power on/off per port -Power class configuration (autoclass/userdefine) -Power feeding with priority -Power budget limit
PD LifeGuard
Account Manager -Muti Privileges
Web Graphical User Interface (GUI)

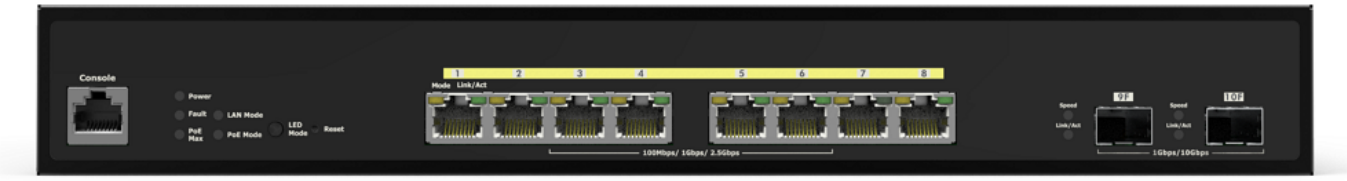
-HTTP IPv4 / IPv6 -HTTPS IPv4 / IPv6
Web support multi-language -Language support
SNMP v1/v2/v3 Support
RMON 1, 2, 3, 9 -Support 4 groups of RMON (1-statistics, 2-history, 3-alarms, 9-events)
SSH Server -IPv4/IPv6

AAA
Telnet Server -IPv4/IPv6
TFTP Client -IPv4/IPv6
Port Mirroring -Support 1 to 1 and many to 1 -Max. mirroring session-3 -Tx/Rx/both mirroring
Dual Images
Image upgrade/backup -Firmware upgrade (TFTP/HTTP)
Configuration upgrade/backup -TFTP/HTTP
Configuration Saving -Manual/Auto Save
System Time -Time setting/daylight saving
Simple Network Time Protocol (SNTP) -IPv4/IPv6/hostname(IPv4) SNTP server -Daylight Savings Time -Port number for SNTP server
Web UI Supports Non-IE Browser -Chrome, Firefox, Safari
SYSLOG -Support log admin password/IP change activity enhancement -Local logging-buffered/flash -Remote logging-IPv4/IPv6/hostname(IPv4) -Originator Identifier-None/Hostname/Ipv4/Ipv6/User Defined
SYSLOG Backup -Buffered

Ping -IPv4/IPv6/hostname(IPv4)
Trace Route -IPv4/IPv6/hostname(IPv4)
Factory Default
Reboot Switch
Flick Reboot
MIB Support
MIB II -RFC1213
Bridge -RFC1493
RMON -RFC1757
802.1p -RFC2674
LLDP MIB -RFC2863
Pubic Mib From Cloud Agent -ReadOnly

Physical Interfaces

Multi GE PoE Switch
ALL-SGC5410PM-10G
330 x 44 x 230 mm



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Technical Details:

Multi GE PoE Switch

	ALL-SGC5410PM-10G
Copper Ports	**8x 2.5GbE**
SFP Ports	-
SFP+ Ports	2x 10GbE
PoE Available Ports	8
PoE Standard	802.3af/at
PoE Power Budget	**240W**
Switch Chip	RTL9302C
PHY	GPY241
PoE Controller	RTL8238B

	ALL-SGC5410PM-10G
Flash Memory	16MB NOR 128MB NAND
SDRAM Memory	512MB DDR3
Packet Buffer	12Mbit
MAC Table Size	16K
Switching Capacity	80Gbps
Fan(s)	2
Power Supply	Int. PSU 300W
Dimensions (W x H x D)	330 x 44 x 230
Operating Temperature	0°C to 50°C

Merkmale

Merkmal	Wert
Anzahl Ports PoE/LAN:	8/0
Belüftung Switch:	Mit Lüfter
Einsatzort Switch:	19";
LAN Geschwindigkeit:	100 Mbit/s; 1Gbit/s; 2,5GBit/s;
Management:	full managed; Apollo Series (Apollo Controller) ;
PoE Budget:	<300 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP+ 10GBit;
Gewicht:	1 Kg
Garantie:	24.00 Monate

Zubehör

Art.-Nr.	Name
211733	ALLNET Apollo On-Prem Hardware Controller / Management & Provision von max. 100 AP´s und Switche Apollo Serie "ALL-AC100"
211734	ALLNET Apollo Wireless AP WIFI6 • AX3000 • 2x2 • Indoor • 2.5 GbE • ALL-WAPC0522AX-3000 • Apollo

Art.-Nr.	Name
211736	ALLNET Apollo Wireless AP WIFI6 • AX5400 • 2x2:2; 4x4:4 • Indoor • 2.5 GbE • ALL-WAPC0544AX-5400 • Apollo
211739	ALLNET Apollo Wireless AP WIFI6 • AX3000 • 2x2 • Outdoor IP67 • 2.5 GbE • ALL-WAPC0522AXO-3000 • Apollo