

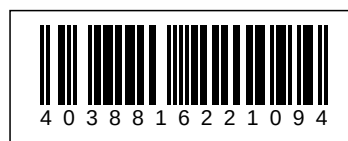


Número de artículo: 221097  
Número de fabricante: ALL-SGC5410PM-10G

## ALLNET SGC5410PM-10G Apollo Full Managed 10x / 8x 2,5GB



### EAN CODE

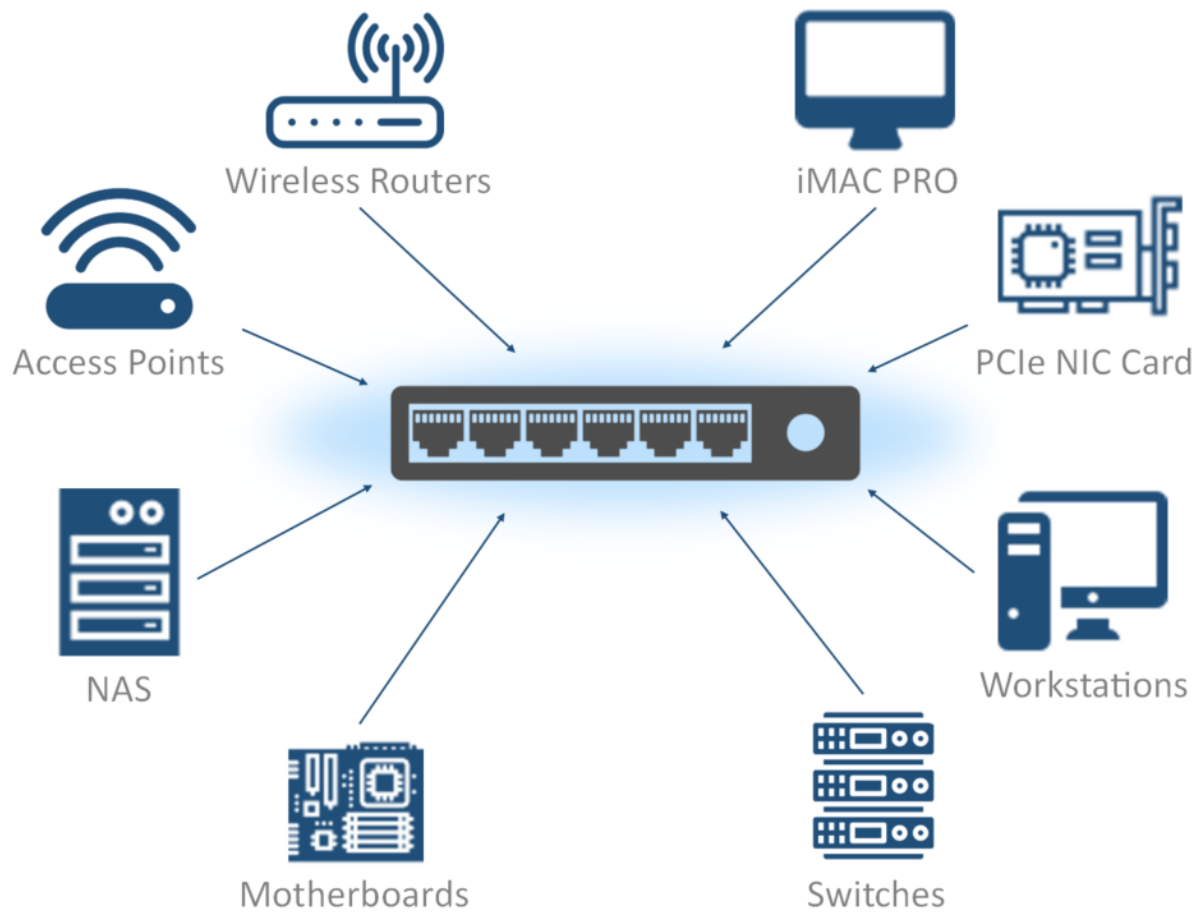


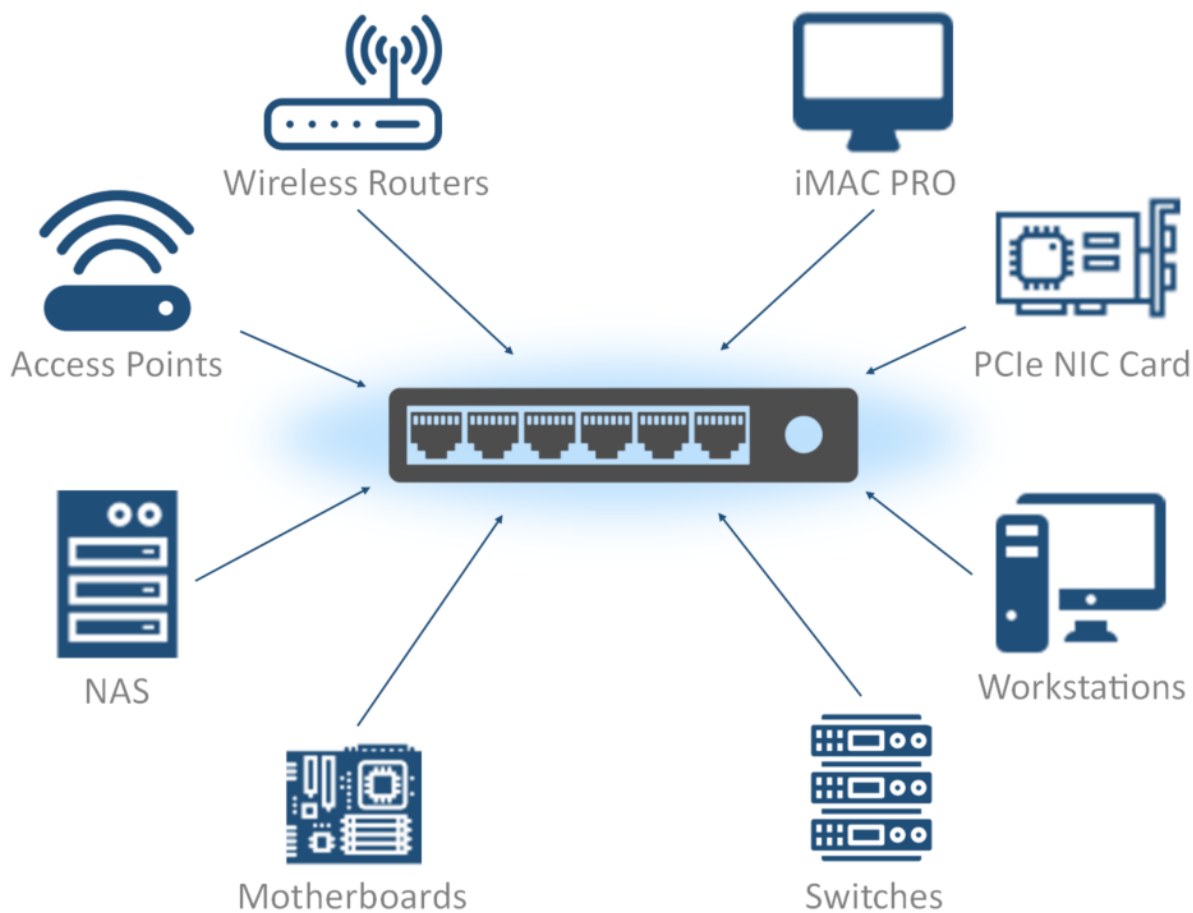
### Destacados:

- 8x 2.5GbE PoE
- 2x SFP+ 10G para Uplink
- Soporta PoE IEEE802.3af / at con 30W max. 30W por puerto
- PoE Budget 240W
- Soporta Jumbo Frames
- Soporta IGMP snooping v1/v2/v3
- Soporta Link aggregation
- Soporta Loop protection
- Soporta Spaning Tree Protocol (STP) y Rapid Spanning Tree (RSTP)
- **Funciona como switch independiente o con el controlador Apollo (véase ALL-AC100)**

Cada vez hay más aplicaciones que necesitan un conmutador Ethernet más rápido. Los switches MultiG de ALLNET Apollo admiten AP Wi-Fi 6/6E/7 más rápidos, aceleran la carga y descarga de archivos grandes, hacen que las videoconferencias sean más fluidas y evitan las fluctuaciones.

### Ecosistema de dispositivos 2.5G / 10G





## Aplicaciones

Multi-GE





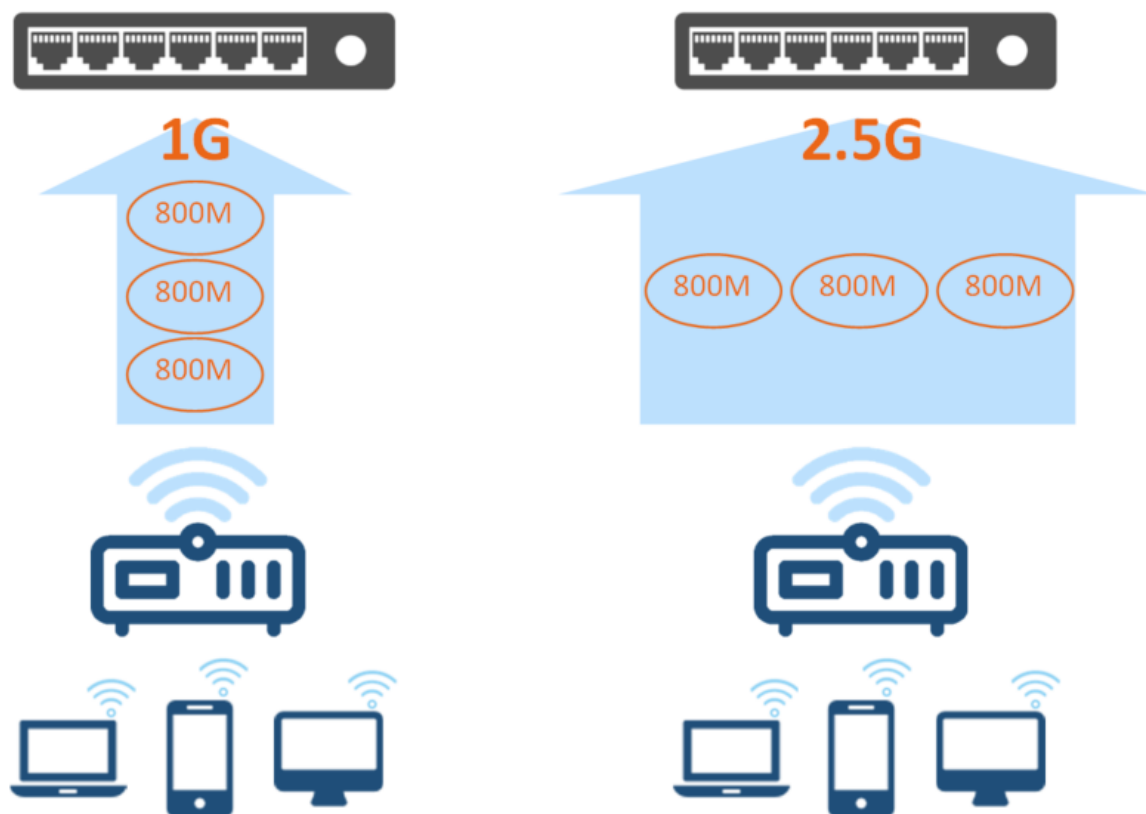
## Interfaz de acceso Multi-GE

El ancho de banda de enlace ascendente de los AP WLAN ha aumentado de 2,5 Gbps en 802.11ac a 5 Gbps o 10 Gbps. El acceso gigabit tradicional no puede satisfacer los requisitos de ancho de banda de enlace ascendente de los AP. Los switches Multi-GE de Emplus los puertos soportan 100M\*/1/2.5Gbps incluso 5G/10Gbps (serie SMX) auto-sensing, cumpliendo con los requisitos de ancho de banda de los APs inalámbricos de alta velocidad en la era Wi-Fi 6. En respuesta al estándar Wi-Fi de próxima generación (Wi-Fi 7), la familia de conmutadores Multi-GE de Emplus con funciones Wi-Fi 7 estará disponible próximamente.

Puertos de conmutación Multi-GE con autonegociación de velocidades de 100 Mbps, 1 Gbps, 2,5 Gbps y 5 Gbps en el cable Cat5e existente, y hasta velocidades de 10 Gbps en el cableado Cat6a más reciente (tabla inferior).

| Cable | 1 G | 2.5G | 5 G | 10G        |
|-------|-----|------|-----|------------|
| Cat5e | •   | •    | •   | N/A        |
| Cat6  | •   | •    | •   | •<br>(55m) |
| Cat6a | •   | •    | •   | •          |

\*100Mbps does not support half-duplex mode



## Spanning Tree Protocol (STP)

Admite el protocolo estándar IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) para una convergencia más rápida.

## Loop protection

Si el conmutador detecta un bucle, desactiva el puerto de origen para que no reenvíe paquetes de datos originados en el conmutador para evitar tormentas de difusión.

## Jumbo frame support

Admite un tamaño de trama de hasta 10K bytes para mejorar el rendimiento de las transferencias de datos de gran tamaño.

## IGMP snooping v1/v2/v3

Mejora el rendimiento de la red mediante el filtrado de multidifusión, en lugar de inundar el tráfico en todos los puertos.



## Link aggregation

Agrupar varios puertos hasta un máximo de ocho (8) puertos por troncal de forma automática mediante el protocolo de control de agregación de enlaces (LACP).

## Software Features - Apollo

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



|                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EOAM</b><br>-SFP information, SFP+ DDM<br>-Cable diagnostic<br>-Port statistics                                                          |
| <b>DHCP</b>                                                                                                                                 |
| IPv4 DHCP Relay<br>-DHCP Relay<br>-Max. IPv4 DHCP servers<br>-Option82 Status<br>-Option82 Strategy (Keep/Replace/Drop)                     |
| IPv4 DHCP Snooping<br>-DHCP Snooping<br>-Binding list<br>-Statistics                                                                        |
| <b>VLAN</b>                                                                                                                                 |
| 802.1Q Support                                                                                                                              |
| VLAN Group<br>-VID from 1-4094 (Max. 256 VLAN groups)                                                                                       |
| GVRP<br>-Dynamic VLAN groups<br>-Per port / device enable / disable<br>-VLAN advertisement                                                  |
| Voice VLAN                                                                                                                                  |
| <b>L3 Interface</b>                                                                                                                         |
| Multiple IP Interface<br>-Max. 4 IP interfaces<br>-Max. 4 Ip v4 address<br>-20 IPv6 address (shared for both link local and global address) |
| ARP Table<br>-Max. 192 ARP entries                                                                                                          |
| Static ARP<br>-Static 192 ARP entries (Share with ARP Table)                                                                                |
| ARP Age Time                                                                                                                                |
| IPv6 Neighbor Discovery Table<br>-Max. 42 ND entries                                                                                        |
| Static IPv6 Neighbor Discovery<br>-Static 42 ND entries (Share with IPv6 Neighbor Discovery Table)                                          |
| <b>L3 Routing</b>                                                                                                                           |
| IPv4 Static Route and Default Route<br>-Max. 63 entries                                                                                     |
|                                                                                                                                             |



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



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



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

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



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|                                          |
|------------------------------------------|
| Ping<br>-IPv4/IPv6/hostname(IPv4)        |
| Trace Route<br>-IPv4/IPv6/hostname(IPv4) |
| Factory Default                          |
| Reboot Switch                            |
| Flick Reboot                             |
| <b>MIB Support</b>                       |
| MIB II<br>-RFC1213                       |
| Bridge<br>-RFC1493                       |
| RMON<br>-RFC1757                         |
| 802.1p<br>-RFC2674                       |
| LLDP MIB<br>-RFC2863                     |
| Pubic Mib From Cloud Agent<br>-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               |
| Flash Memory           | 16MB NOR<br>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            |

## Atributos

| Atributo              | Valor                                             |
|-----------------------|---------------------------------------------------|
| 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                                            |

| Atributo             | Valor        |
|----------------------|--------------|
| SFP Geschwindigkeit: | SFP+ 10GBit; |
| Peso:                | 1 Kg         |
| Garantía:            | 24.00 Meses  |

## Imágenes adicionales



## Accesorios

| Número de artículo | Denominación                                                  |
|--------------------|---------------------------------------------------------------|
| 211733             | ALLNET AC100 Controlador de red serie Apollo                  |
| 211734             | ALLNET WAPC0522AX-3000 Punto de acceso Apollo Wi-Fi 6         |
| 211736             | ALLNET WAPC0544AX-5400 Punto de acceso Apollo WiFi 6 / AX5400 |
| 211739             | ALLNET WAPC0522AXO-3000 Punto de acceso Apollo Wi-Fi 6        |