

## ALLNET Switch industrial smart managed Layer2+ 16 Port GbE • PoE Budget 360W • 12x PoE+ • 4x SFP • Fanless • DIN • ALL-SGI8016PM



### EAN CODE



El ALL-SGI8016PM es un conmutador industrial L3 PoE de 16 Gigabit profesional y a la vez asequible que soporta hasta 12\*10/100/1000M puertos de enlace descendente PoE y 4\* 1000M puertos SFP. Los 12\*10/100/1000M puertos soportan PoE+ y cumplen con el estándar IEEE 802.3af/at, con una potencia PoE por puerto de hasta 30W.

Soporta la gestión de L3 como OSPF, RIP, QoS, VLAN, MSTP, multi-broadcast, gestión de puertos y gestión de PoE y soporta protección contra sobretensiones de 6KV, protección ESD de 8KV de contacto/15KV de aire. La instalación en la pared, en el escritorio y en el Din-Rail es fiable y duradera y puede utilizarse en la videovigilancia de redes de seguridad, en redes y en otras aplicaciones.

### Aspectos destacados:

- Con 12\*10/100/1000M puertos de enlace descendente PoE, 4\*1000M puertos SFP
- Soporta energía PoE hasta 30W cada uno;
- Soporta la gestión de L3, como OSPF, RIP, QoS, VLAN, MSTP, Multi-broadcast, gestión de puertos y gestión de PoE;
- Protección contra sobretensiones de 6KV, protección ESD de 8KV de contacto /15KV de aire;
- Soporta una temperatura de trabajo de -40°C ~+75°C.

### • Technical Details:

| Parameter        | Specifications                       |
|------------------|--------------------------------------|
| Power supply     | Powered by power adaptor             |
| Range of voltage | 2*DC 48~57V, redundancy power supply |
| Consumption      | Self consumption<20W                 |



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|                                |                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Downlink ports                 | 10/100/1000Base-T 30W PoE RJ45(IEEE 802.3af/at)                                                                                                        |
| Uplink ports                   | Ports 13~16 1000M SFP slots                                                                                                                            |
| Cable and distance             | Use cat5e/6,100m max                                                                                                                                   |
| Standard                       | IEEE802.3, IEEE802.3u, IEEE802.3z                                                                                                                      |
| Switch fabric                  | 32Gbps                                                                                                                                                 |
| Though put                     | 23.8Mpps                                                                                                                                               |
| Buffer                         | 4M                                                                                                                                                     |
| MAC address table              | 16K                                                                                                                                                    |
| Indicator                      | Power: 2 *red ;<br><br>Uplink 13~16: green LEDs indicate Link/Act<br><br>Downlink 1~12: On RJ45 green LEDs indicate Link/Act, yellow LEDs indicate PoE |
| Protection                     | Surge: 6KV, standard: IEC61000-4-5 ESD: 8KV: contact/15KV: air, standard:IEC61000-4-2                                                                  |
| Working temperature            | -40°C~+75°C                                                                                                                                            |
| Storage temperature            | -40°C~+85°C                                                                                                                                            |
| Humidity                       | 0~95%(No condensation)                                                                                                                                 |
| Dimension(L×W×H)               | 165 mm×114 mm×46mm                                                                                                                                     |
| Material                       | Metal                                                                                                                                                  |
| Colour                         | Black                                                                                                                                                  |
| Net-weight                     | 530g                                                                                                                                                   |
| L2 Features Port configuration | Auto-negotiation                                                                                                                                       |
|                                | Flow Control                                                                                                                                           |
|                                | Port Mirror                                                                                                                                            |
| L2 Features Link Aggregation   | Traffic statistics                                                                                                                                     |
|                                | Static link aggregation                                                                                                                                |
|                                | LACP                                                                                                                                                   |
|                                | Algorithm based on Source/Destination MAC                                                                                                              |
|                                | Algorithm based on Source/Destination IP                                                                                                               |
|                                | 8 groups                                                                                                                                               |
|                                | 8 ports per group                                                                                                                                      |
| L2 Features MAC Table          | Aging Time                                                                                                                                             |
|                                | Static MAC address                                                                                                                                     |
|                                | Dynamic MAC address management                                                                                                                         |
|                                |                                                                                                                                                        |



|                            |                                               |
|----------------------------|-----------------------------------------------|
| L2 Features VLAN           | 4K Active VLANs                               |
|                            | 4K VID                                        |
|                            | 802.1Q Tag VLAN                               |
|                            | Port VLAN                                     |
|                            | Protocol VLAN                                 |
|                            | MAC VLAN                                      |
|                            | Management VLAN                               |
|                            | Voice VLAN                                    |
|                            | Q-in-Q                                        |
|                            | Private VLAN                                  |
|                            | GARP/GVRP                                     |
|                            |                                               |
| L2 Features ACL            | 64 ACLs                                       |
|                            | L2, L3 e L4                                   |
|                            | Time-based ACL                                |
| L2 Features Spanning tree  | 802.1D Spanning Tree Protocol (STP)           |
|                            | 802.1w Rapid Spanning Tree Protocol (RSTP)    |
|                            | 802.1s Multiple Spanning Tree Protocol (MSTP) |
|                            | Loop Guard                                    |
|                            | Root Guard                                    |
|                            | TC-BPDU Guard                                 |
|                            | BPDU Guard                                    |
|                            | BPDU Filter                                   |
| L2 Features Multicast      | 256 groups                                    |
|                            | IGMP v1/v2/v3                                 |
|                            | Fast Leave                                    |
|                            | Multicast VLAN                                |
|                            | Static Multicast                              |
|                            | Multicast Filter                              |
|                            | IGMP Statistics                               |
|                            | MLD Snooping                                  |
| L2 Features PoE management | Support total power consumption control       |
|                            | Support single port PoE ON/OFF                |
|                            | Support port output priority                  |
| L2 Features QOS            | 4 priority queues                             |
|                            | CoS port-based                                |
|                            | CoS 802.1p-based                              |



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|                   |                                                                                      |
|-------------------|--------------------------------------------------------------------------------------|
| Security Features | CoS DSCP-based                                                                       |
|                   | Scheduling algorithms SP, WRR, SP+WRR                                                |
|                   | Storm Control (Broadcast, Multicast, Unknown Unicast)                                |
|                   | Bandwidth control per port                                                           |
|                   | Port Security                                                                        |
|                   | MAC address filter                                                                   |
|                   | ARP Association (Manual, ARP scanning, DHCP snooping) up to 200 entries              |
|                   | ARP Protection                                                                       |
|                   | DoS (Denial of Service)                                                              |
|                   | Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type |
|                   | 802.1x Autentication (port-based e MAC-based)                                        |
|                   | TACACS/TACACS+ Autentication                                                         |
|                   | RADIUS Autentication                                                                 |
|                   | DHCP Filter                                                                          |
|                   | Guest VLAN                                                                           |
|                   | SSLv2/SSLv3/TLSv1                                                                    |
|                   | SSHv1/SSHv2                                                                          |
|                   | Restriction of WEB access based on: IP Address, And. MAC and Port                    |
|                   | Port Isolation                                                                       |
|                   | Local User Name Password Authentication (2 levels)                                   |
|                   | Loopback detection                                                                   |
| Management        | SNMP v1/v2c/v3                                                                       |
|                   | RMON 4 grupos                                                                        |
|                   | WEB (HTTP/HTTPS)                                                                     |
|                   | CLI (Telnet, Console, SSHv1/v2)                                                      |
|                   | Firmware upgrade via console/web/TFTP                                                |
|                   | Configuration Backup/Reload                                                          |
|                   | All possible configurations in the CLI must exist in the WEB interface               |
|                   | LLDP                                                                                 |
| Other Features    | DHCP Relay                                                                           |
|                   | DHCP Client                                                                          |



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|             |                                                    |
|-------------|----------------------------------------------------|
|             | DHCP Snooping                                      |
|             | DHCP Option 82                                     |
|             | SNTP Client                                        |
|             | BOOTP Client                                       |
| Maintenance | Ping and Tracert                                   |
|             | System log (Local and Remote)                      |
|             | Memory and CPU Monitoring                          |
| L3 Features | Static Routing                                     |
|             | OSPFv2                                             |
|             | RIPv1/v2                                           |
|             | DHCP Server                                        |
| IPv6        | IPv6 neighbor discovery (ND)                       |
|             | Path maximum transmission unit (MTU) discovery     |
|             | Internet Control Message Protocol (ICMP) version 6 |
|             | TCPv6/UDPv6                                        |
|             | Ping6                                              |
|             | Tracert6                                           |
|             | Telnet(v6)                                         |
|             | Http/Https                                         |
|             | IPv6 TFTP                                          |
|             | Static Routing                                     |
|             | Interface IPV6                                     |

## Atributos

| Atributo              | Valor          |
|-----------------------|----------------|
| Anzahl Ports PoE/LAN: | 12/0           |
| Belüftung Switch:     | Lüfterlos      |
| Einsatzort Switch:    | Industrial DIN |
| Extra Features:       | IP40           |
| LAN Geschwindigkeit:  | 1Gbit/s        |
| Management:           | full managed   |
| PoE Port Leistung:    | 30W at         |

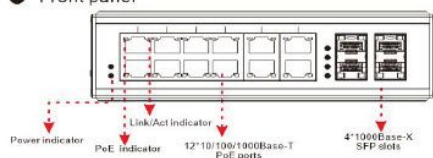
| Atributo             | Valor       |
|----------------------|-------------|
| SFP Geschwindigkeit: | SFP 1GBit   |
| Peso:                | 0.42 Kg     |
| Garantía:            | 24.00 Meses |

## Imágenes adicionales



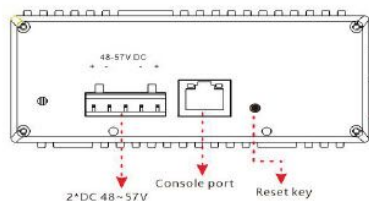
### ❖ Panel diagram

#### ● Front panel

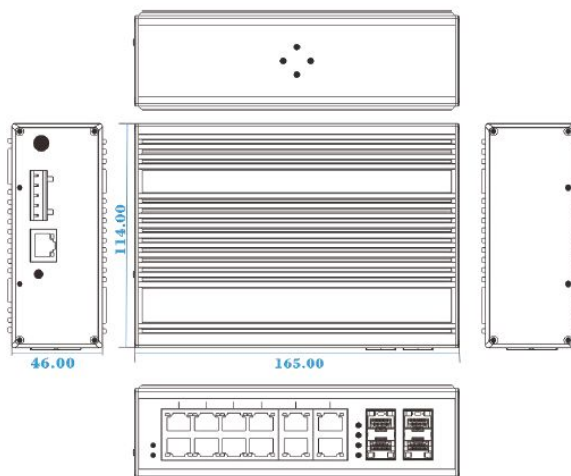


**Attention 1:** This product must be well grounded against lightning, please use better than 20# cable to connect the grounding terminal and ground.

#### ● Left panel



### ❖ Dimensions



## Accesorios

| Número de artículo | Denominación                                                                                                  |
|--------------------|---------------------------------------------------------------------------------------------------------------|
| 200364             | ALLNET 19"zbh. Gerätehalter für Hutschiene/DIN-Rail Geräte, T150mm/5HE, Lichtgrau, Frontmontage,              |
| 219493             | ALLNET ALL-DIN-101-AC                                                                                         |
| 219373             | ALLNET Rack DIN, T223mm, gris claro                                                                           |
| 219572             | ALLNET ALL-DIN-SGI8012PM                                                                                      |
| 144991             | ALLNET PR2012P-E / Repeater PoE IP67                                                                          |
| 189128             | ALLNET PR2013O-30W Repeater exterior IP67                                                                     |
| 128033             | ALLNET Módulo de conmutación ALL4750-INDU SFP(M-GBIC) 1G MM                                                   |
| 128034             | ALLNET Módulo de conmutación ALL4751-INDU SFP(m-GBIC), 1G SM                                                  |
| 166757             | ALLNET Switch Modul ALL4752-INDU SFP(Mini-GBIC), 1000Mbit, LX/LC, 20Km, Singlemode, Industrial, -40/+85 Grad, |
| 193149             | ALLNET Mini-Gbic 4761-INDU SFP 1000Mbit                                                                       |
| 193150             | ALLNET Mini-GBIC 4762-INDU SFP 1000Mbit                                                                       |
| 208404             | ALLNET Switch Modul ALL4765-INDU SFP(Mini-GBIC), 1000Mbit, RJ45(TP), Industrial -40/+85 Grad,                 |
| 99305              | ALLNET ALL951000 Protector contra rayos Cat 6                                                                 |
| 198028             | ALLNET TP Cat 6 Überspannungs-/Blitzschutz Surge Protector ALL95102O Outdoor IP66                             |
| 188424             | CyberPower SAI Interactiva 600VA/360W                                                                         |
| 188433             | CyberPower SAI Interactiva 650VA/360W                                                                         |
| 188435             | CyberPower SAI Interactiva 1000VA/600W                                                                        |
| 188439             | CyberPower SAI Interactivo 1500VA/900W                                                                        |
| 90560              | Synergy 21 Enchufe borne hembra con conexión 5 pins                                                           |
| 140522             | Mean Well Fuente de alimentación carril DIN 48V/120W                                                          |
| 131244             | Meanwell Fuente de alimentación 48V 240W carril DIN                                                           |
| 146994             | Mean Well Fuente de alimentación carril DIN 48V/480W                                                          |
| 174789             | Mean Well SDR-480P-48 Alimentación 48V/480W                                                                   |
| 146996             | Mean Well Fuente de alimentación carril DIN - 48V 960W                                                        |
| 140955             | TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,                                            |
| 252985             | ALLNET DIN-RAIL Wandgehäuse, T223mm, Schwarz, IP55, SO-DIN-Serie,                                             |