

## ALLNET Switch full managed 48 Port Gigabit / 48x LAN / 4x SFP+ / 19" / "ALL-SG8652M-10G"

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### EAN CODE



## ALLNET Switch full managed 48 Port Gigabit / 24x LAN / 4x SFP+ / 19" / "ALL-SG8652M-10G"

### Highlights:

- 48 ports Gigabit Layer2+ switch architecture (ports 1~48).
- 4 ports SFP+ 10G slots compatible for optional GBICs (ports 48~52).
- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, IP Source Guard, ARP inspection, ACLs etc.
- Support spanning tree STP(802.1D) and RSTP(802.1W) and MSTP(802.1s).
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis and SFP DDM.
- Support PoE management, like PoE schedule, PoE PD-alive.
- Support G.8032 quick ring protocol. Self-recovery time <20ms.
- Support IEEE1588 v2, transparent clock(TC)
- Support DDM, SFP digital diagnostics monitoring
- Support IPV4 and IPV6 static routing functions
- Support memory and CPU monitoring
- 4KV surge protection, 6KV contact/8KV air protection
- 19" angle or wall/table mounting possible

**Full L2+ managed Ethernet aggregation /core fiber switch with 48\* 10/100/1000M RJ45 ports and 4\*1/10G SFP+ fiber slot ports, Built-in 60W power supply. Support 1U/19 inch rack installation.**

ALL-SG8652M-10G is an aggregation /core fiber switch with 48\* 10/100/1000M RJ45 ports and 4\*1/10G SFP+

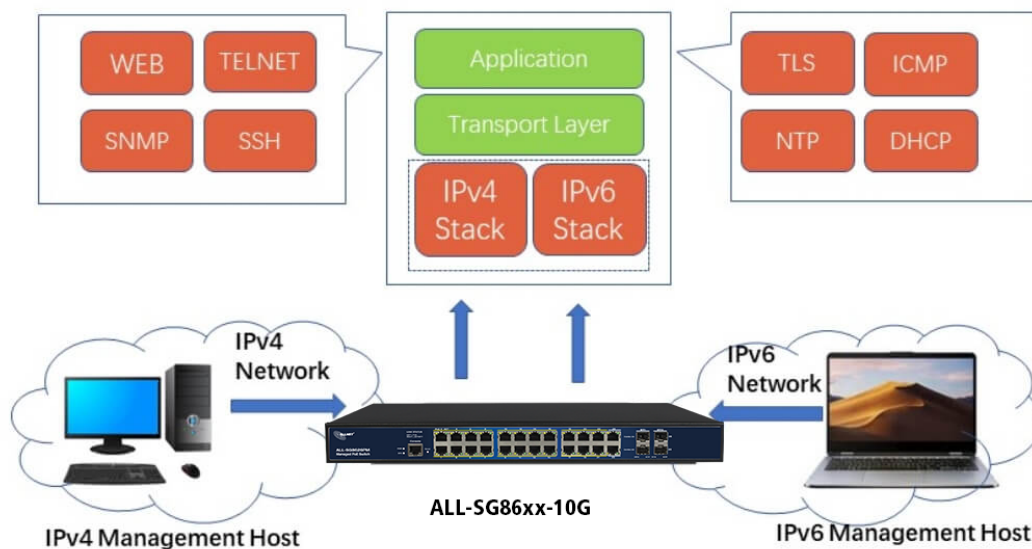
fiber slot ports, Built-in 60W power supply. Support 1U/19 inch rack installation. With full L2 management functions, such as VLAN, QoS, ACL, IPv4/IPv6 routing, ALL-SG8652M-10G can be used in various applications, such as video surveillance, VoIP, wireless coverage etc with a affordable cost.

### 10Gbps Uplink Capacity for Big Bandwidth Application

10G Ethernet is a big leap in the evolution of Ethernet. The 10G SFP+ slots support dual-speed 10GBASE-SR/LR or 1000BASE-SX/LX, meaning the administrator now can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. It is a cost-effective solution for SMB network to achieve the maximum performance of the 10G networks

### Solution for IPv6 Networking

With the IPv6/IPv4 dual stack and other management functions, ALL-SG8652M-10G is the best choice for IP CCTV surveillance, VoIP and wireless solution providers to develop the IPv6 network. Meanwhile the fiber switch help the SMBs to upgrade their network infrastructures to the IPv6 era without any extra investment.



### Robust Layer 2 Features

ALL-SG8652M-10G can be programmed for advanced Ethernet switch management functions, such as port aggregation, Q-in-Q VLAN, Spanning Tree Protocol, QoS, bandwidth control, ERPS IGMP/MLD snooping etc. ALL-SG8652M-10G allows the operation of a high-speed trunk combining multiple ports.

### Powerful Security Functions

ALL-SG8652M-10G provides a comprehensive access control list (ACL) for enforcing security to the edge. It can be used to restrict to network access by denying packets based on source and destination IP address, TCP/UDP port number or defined typical network applications. Its protection mechanism also comprises 802.1x Port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy.

### Enhanced Security and Traffic Control

ALL-SG8652M-10G supports DHCP Snooping, IP Source Guard and Dynamic ARP Inspection functions to

prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrator can now construct highly-secure corporate networks with considerably less time and effort than before.

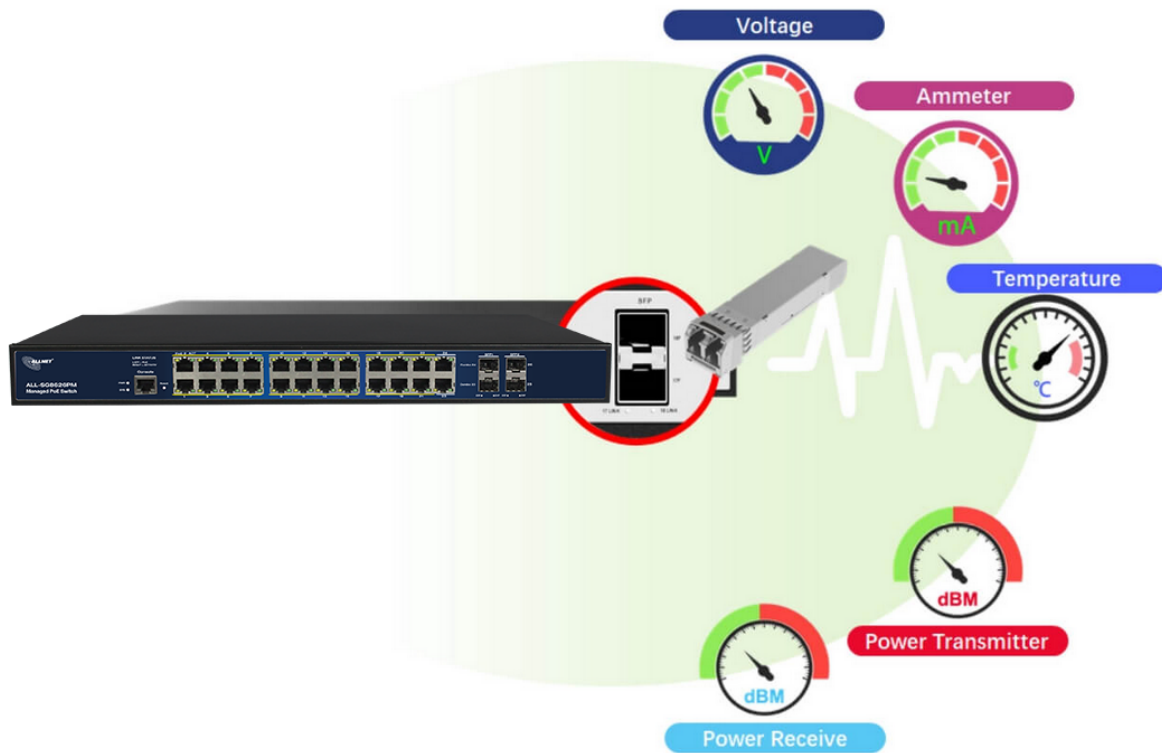
### User-friendly Secure Management

For efficient management, ALL-SG8652M-10G managed switch series is equipped with console, web and SNMP management interfaces. With management interface, ALL-SG8652M-10G offers an easy-to-use, platform independent management and configuration facility. ALL-SG8652M-10G supports SNMP and it can be managed via any management software based on the standard SNMP v1 or v2 Protocol. Meanwhile ALL-SG8652M-10G offers Cisco-like command via Telnet or console port and customer doesn't need to learn new command from these switches. Moreover, ALL-SG8652M-10G offers the remotely secure management by supporting SSH, SSL and SNMP v3 connection where the packet content can be encrypted at each session.

### Intelligent SFP DDM Function

ALL-SG8652M-10G supports SFP-DDM (Digital Diagnostic Monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

## Digital Diagnostic Monitor (DDM)

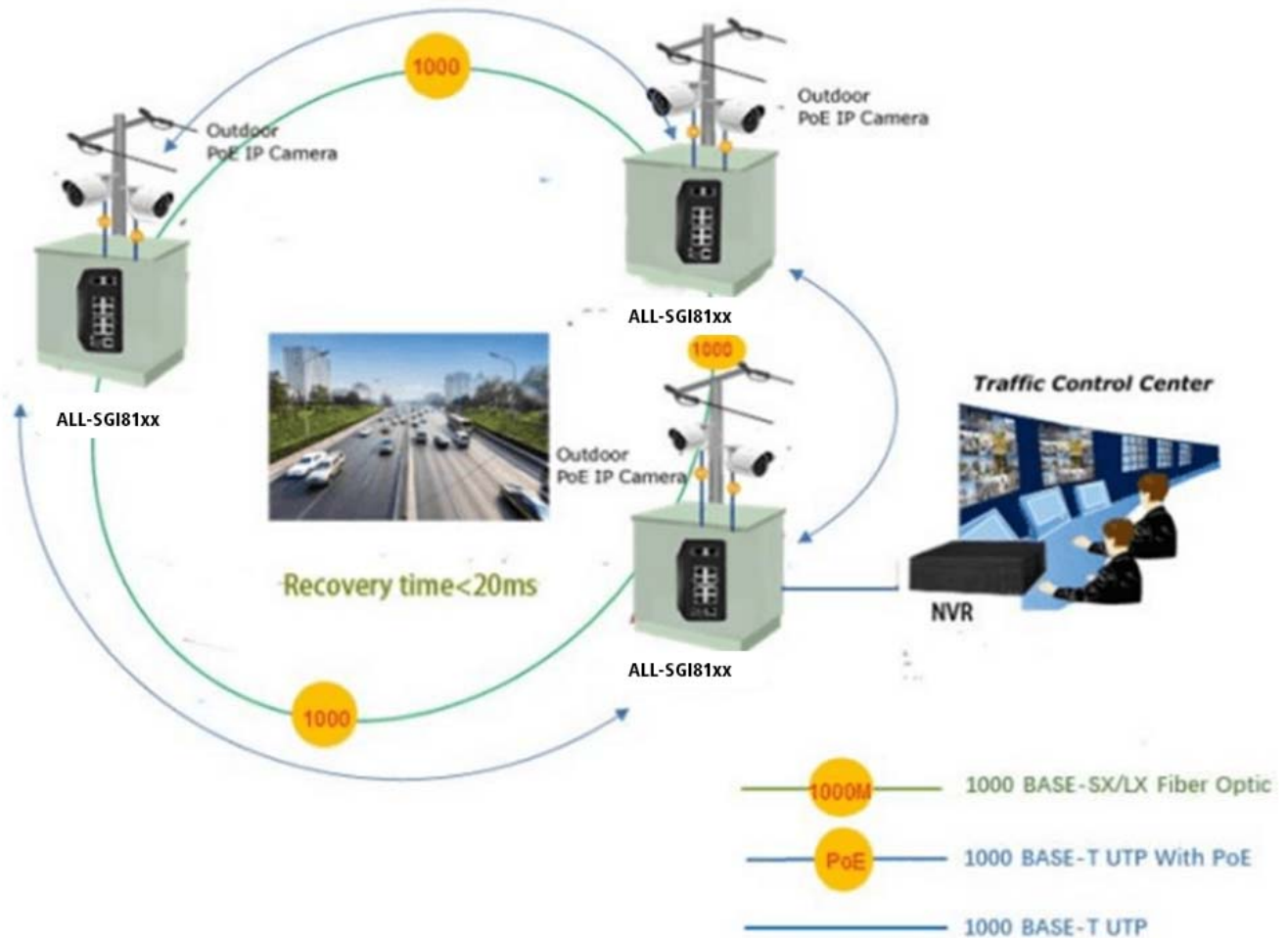


### Fast Recovery Redundant Ring for Critical Network Applications

The ALL-SG8652M-10G supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS technology, Spanning

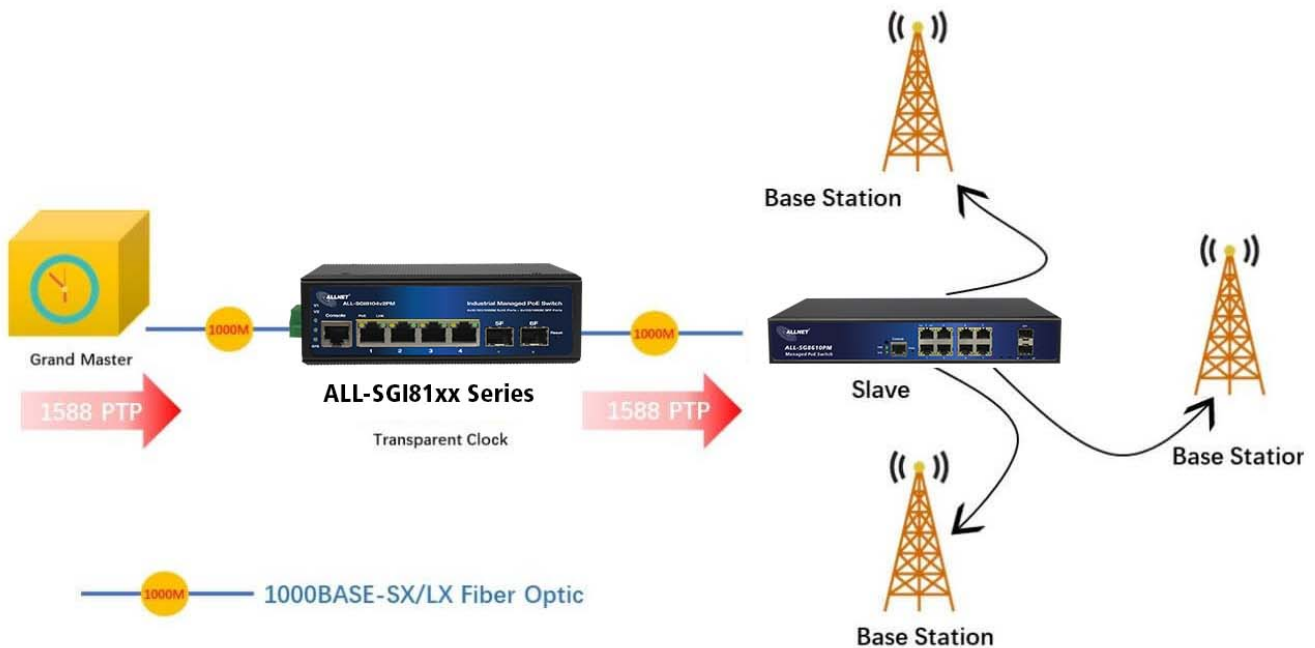
Tree Protocol (802.1s MSTP), and redundant power input system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments. In a certain simple Ring network, the recovery time of data link can be as fast as 20ms.

## ERPS Ring for Video Transmission Redundancy



### 1588 Time Protocol for Industrial Computing Networks

The ALL-SG8652M-10G is ideal for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.



## Technische Daten:

Model	ALL-SG8652M-10G
Copper Ports	48-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fiber Ports	4x1G/10GBASE-X SFP interfaces, supports 1G/10Gbps dual mode
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	176 Gbps/non-blocking
Throughput	130.94Mpps @64 bytes
Address Table	32K entries
Share Data Buffer	32Mb
Jumbo Frame	9600 Bytes
SDRAM	2Gb
Flash Memory	128Mb
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Reset Button	>2 sec.: Factory default and reset
Power Supply	100~240V AC, 50/60Hz, 4A (max.)
Power Consumption	Max. 370 watts



LED Indicators	<p>Power: Green</p> <p>Solid on- power work normal, off- power disconnected</p> <p>System: Green</p> <p>Blink-work normally, solid on- soft work abnormal, fast blink- soft upgrade</p> <p>10/100/1000T RJ45 Interfaces (Port 1 to Port 48): 1000 LNK/ACT (Green),10/100 LNK/ACT (yellow),</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> <p>1G/10G SFP Interfaces (Port 49 to Port 52): Blue</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p>
EMC	<p>Surge Immunity:</p> <p>4KV Per: IEC61000-4-5</p> <p>ESD Protection:</p> <p>ESD Level 4 Per: IEC61000-4-2</p> <p>EFT Level 4 Per: IEC61000-4-4</p>
<b>Layer2 Functions</b>	
Port configuration	<p>Auto-negotiation</p> <p>Flow Control</p> <p>Port Mirror: TX/RX/BOTH; Many-to-1 monitor</p> <p>CPU Mirror</p> <p>Traffic statistics</p>
Link Aggregation	<p>Static link aggregation</p> <p>LACP (Dynamic Trunk/Static Trunk)</p> <p>Algorith based on Source/Destination MAC</p> <p>Algorithm based on Source/Destination IP</p>
MAC Table	<p>Aging Time</p>



	Static MAC address  Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP
ACL	512ACLs L2, L3 e L4 Time-based ACL IP ACL MAC ACL MAC-IP ACL User-Defined ACL ICMPv6
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
Ring Protection	<20ms G.8032 ERPS Ring  Fast Ring
Multicast	1024 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter MVR Multicast Routing
QOS	8 mapping IDs to 8 level priority queues



	<ul style="list-style-type: none"> <li>CoS port-based</li> <li>CoS 802.1p-based</li> <li>CoS DSCP-based</li> <li>Scheduling algorithms SP, WRR, SP+WRR</li> <li>Storm Control (Broadcast, Multicast, Unknown Unicast)</li> <li>Bandwidth control per port</li> <li>SWRR, DWRR for Scheduling</li> <li>Flow Redirect</li> <li>Precedence</li> <li>TOS</li> <li>Rate Limiting(Ingress/Egress)</li> <li>Stri Priority</li> </ul>
Security Features	<ul style="list-style-type: none"> <li>Port Security</li> <li>MAC address filter</li> <li>ARP Association (Manual, ARP scanning, DHCP snooping)</li> <li>ARP Protection</li> <li>AAA</li> <li>DAI</li> <li>DoS (Denial of Service)</li> <li>Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type;</li> <li>802.1x Authentication (port-based e MAC-based)</li> <li>TACACS/TACACS+ Authentication</li> <li>RADIUS Authentication</li> <li>DHCP Filter</li> <li>Guest VLAN</li> <li>SSLv2/SSLv3/TLSv1</li> <li>SSHv1/SSHv2</li> <li>Restriction of WEB access based on: IP Address, And. MAC and Port;</li> <li>Port Isolation</li> <li>Loopback detection</li> </ul>
Management	<ul style="list-style-type: none"> <li>SNMP v1/v2c/v3 with Full Private MIBs</li> <li>RMON 4 groups</li> <li>WEB (HTTP/HTTPS)</li> <li>CLI (Telnet, Console, SSHv1/v2)</li> <li>Firmware upgrade via console/web/TFTP</li> <li>Configuration Backup/Reload</li> <li>Dual Firmware</li> <li>LLDP</li> <li>Configuration Export/Import</li> <li>CDP Aware</li> <li>OAM (IEEE802.3ah)</li> <li>CFM (IEEE802.1ag)</li> <li>sFlow</li> <li>Telnet client</li> </ul>





Synchronization, IEEE1588	Support IEEE1588v2 transparent clock
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 66 DHCP Option 67 DHCP Option 82 NTP/SNTP Client UPNP UDLD
Maintenance	Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring Tracert/ tracer 6
<b>Layer 3 functions</b>	
Static Routing	IPv4 Unicast: Static Routing(Software Base)  IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbor discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6 TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6
Dimension	440x240x44.5 mm
Weight	3,3 kg
Working Temperature	-10 °C to 45 °C
Storage Temperature	-20 °C to 70 °C
MTBF	50,000hrs

## Atributos

Atributo	Valor
Anzahl Ports PoE/LAN:	0/48

Atributo	Valor
Belüftung Switch:	Mit Lüfter
Einsatzort Switch:	19"
LAN Geschwindigkeit:	1Gbit/s
Management:	full managed
SFP Geschwindigkeit:	SFP 1Gbit;SFP+ 10Gbit;
Peso:	1 Kg
Garantía:	24.00 Meses

## Accesorios

Número de artículo	Denominación
146245	ALLNET Ventilador de repuesto para Switch SG8428P
27947	ALLNET ALL4750 Módulo Mini-GBIC 1000Mbit, SX/LC
59426	ALLNET ALL4751 Módulo Mini-GBIC 1x 1000Mbit, LX/LC
114334	ALLNET Switch Modul ALL4752 SFP(mini Gbic), 1000Mbit, LHX/LC
59391	ALLNET ALL4753 Módulo Mini-GBIC 1x 1000Mbit EX/LC
59393	ALLNET ALL4755 Módulo Mini-GBIC 1x 1000Mbit, ZX/LC
143548	ALLNET Switch Module ALL4756 SFP(Mini-GBIC), 1000Mbit, ZX/LC
141113	ALLNET ALL4780 / Switch Modul (Mini-GBIC), 2Wire-Set, max. 1
75932	Synergy 21 S215003 - Latiguillo CAT5e FTP RJ-45 gris, 0.25m
75939	Synergy 21 S215010 - Latiguillo CAT5e FTP RJ-45 gris, 0.50m
75946	Synergy 21 S215017 - Latiguillo CAT5e FTP RJ-45 gris, 1m
75959	Synergy 21 S215030 - Latiguillo CAT5e FTP RJ-45 gris, 2m
75966	Synergy 21 S215037 - Latiguillo CAT5e FTP RJ-45 gris, 3m
75973	Synergy 21 S215044 - Latiguillo CAT5e FTP RJ-45 gris, 5m
75979	Synergy 21 S215050 - Latiguillo CAT5e FTP RJ-45 gris, 7.5m
75986	Synergy 21 S215057 - Latiguillo CAT5e FTP RJ-45 gris, 10m
76091	Synergy 21 S215162 - Latiguillo CAT5e S-FTP RJ-45 gris, 15m
76029	Synergy 21 S215100 - Latiguillo CAT5e S-FTP RJ-45 gris, 0.25
76036	Synergy 21 S215107 - Latiguillo CAT5e S-FTP RJ-45 gris, 0.50

Número de artículo	Denominación
76043	Synergy 21 S215114 - Latiguillo CAT5e S-FTP RJ-45 gris, 1m
76056	Synergy 21 S215127 - Latiguillo CAT5e S-FTP RJ-45 gris, 2m
76063	Synergy 21 S215134 - Latiguillo CAT5e S-FTP RJ-45 gris, 3m
76070	Synergy 21 S215141 - Latiguillo CAT5e S-FTP RJ-45 gris, 5m
76077	Synergy 21 S215148 - Latiguillo CAT5e S-FTP RJ-45 gris, 7.5m
76084	Synergy 21 S215155 - Latiguillo CAT5e S-FTP RJ-45 gris, 10m
76091	Synergy 21 S215162 - Latiguillo CAT5e S-FTP RJ-45 gris, 15m
76117	Synergy 21 S216004 - Latiguillo CAT6 S-STP RJ-45 gris, 0.25m
76124	Synergy 21 S216012 - Latiguillo CAT6 S-STP RJ-45 gris, 0.5m
76133	Synergy 21 S216022 - Latiguillo CAT6 S-STP RJ-45 gris, 1m
76151	Synergy 21 S216041 - Latiguillo CAT6 S-STP RJ-45 gris, 2m
76160	Synergy 21 S216051 - Latiguillo CAT6 S-STP RJ-45 gris, 3m
76169	Synergy 21 S216061 - Latiguillo CAT6 S-STP RJ-45 gris, 5m
76178	Synergy 21 S216070 - Latiguillo CAT6 S-STP RJ-45 gris, 7.5m
76187	Synergy 21 S216079 - Latiguillo CAT6 S-STP RJ-45 gris, 10m
76196	Synergy 21 S216088 - Latiguillo CAT6 S-STP RJ-45 gris, 15m
140955	TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,
141255	Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 1m,Black IEC Lock
141254	Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 2m,Black IEC Lock
141256	Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 3m,Black IEC Lock
188424	CyberPower SAI Interactiva 600VA/360W
188433	CyberPower SAI Interactiva 650VA/360W
188435	CyberPower SAI Interactiva 1000VA/600W
188439	CyberPower SAI Interactivo 1500VA/900W
146282	ALLNET Switch Module ALL4767 SFP+(Mini-GBIC), 10Gbit
101189	ALLNET ALL4757 / Switch module SFP+ (mini Gbic), 10Gbit, SR/
149613	ALLNET Switch Module ALL4757-INDU SFP+(Mini-GBIC), 10Gbit
101190	ALLNET ALL4758 - Módulo mini-Gbic 10Gbit LR/LC
149616	ALLNET Switch Module ALL4758-INDU SFP+(Mini-GBIC), 10Gbit



Número de artículo: 208889  
Número de fabricante: ALL-SG8652M-10G

Número de artículo	Denominación
208360	ALLNET Switch Modul ALL4767-INDU SFP+(Mini-GBIC), 10Gbit, RJ45(TP), uncodiert, Industrial -40/+85 Grad,
139776	ALLNET Switch Module ALL4763 SFP+(Mini-GBIC), 10Gbit
139777	ALLNET Switch Module ALL4764 SFP+(Mini-GBIC), 10Gbit
191685	ALLNET 4768 Mini-GBIC 10Gbit LR/LC hasta 40Km
191686	ALLNET 4769 Mini-GBIC 10Gbit LR/LC hasta 80Km