ALLNET ALL-SG8826PMX-10G

ALLNET ALL-SG8826PMX-10G / full managed 24 Ports Gigabit PoE & 2xSFP/SFP+ & 2xSFP+ Stack-Ports

- 24Port 10/100/1000Base-T PoE (1-24) & 2x 10Gigabit SFP+ (25/28) & 2x 10Gigabit SFP+ for stacking (26/27)
- MiniGBIC ports are compatible with SFP 1G oder SFP+ 10G
- stack up to 16 switches into one single switch
- 88G non-blocking switching capability
- Layer 2+ full management software features
- 4K VLAN, 8 queues QoS, advanced VLANs
- MSTP, LACP, LLDP, sFlow,
- 802.1X, RADIUS, TACAS+, ACL
- IPv6, IPv4/v6 multicast filtering
- 802.3az energy efficient ethernet

Article: 112082

www.allnet.de

The New 10G Full-Managed ALLNET Ethernet Switch Series

The ALLNET ALL-SG8826PMX-10G switch is 24-port 10/100/1000Base-T PoE & 2x 10G SFP+ for Stacking & 2x 10G SFP+ Open Slot Rack-mount L2+ Full Management Network Switch that is designed for medium or large network environment to strengthen its network connection. The ALLNET ALL-SG8826PMX-10G switch supports 88G non-blocking switch fabric, the 24x gigabit ports and 2x 10G ports can transmit and receive data traffic without any lost. The EEE feature reduces the power consumption when there is no traffic forwarding even port is still connected. The 10G uplink port design is available and important for high bandwidth uplink request when cascaded with other switch. The ALL-SG8826-PMX-10G also supports Layer 2+ full management software features. These features are powerful to provide network control, management, monitor and security feature requests. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

2x 10G Gigabit SFP+ Open Slots

The ALL-SG8826-PMX-10G equips with 2 10G SFP+ open slots as the uplink ports, the 10G uplink design provides an excellent solution for expanding your network from 1G to 10G. By 10G speed, this product provides high flexibility and high bandwidth connectivity to another 10G switch or the Servers, Workstations and other attached devices which support 10G interface. The user can also aggregate the 10G ports as Trunk group to enlarge the bandwidth.

Stacking Features

The ALL-SG8826-PMX-10G include a stacking feature by using 2 SFP+ ports that allows multiple switches to operate as a single unit. A single switch in the stack can manages all the units in the stack and uses a single IP address which allows the user to manage every port in the stack from this one address. These stacks can include up to 16 switches, or total 384 gigabit ports plus 32 ports 10G in a switch.

Full Layer 2 Management Features

The switch includes full Layer 2+ Management features. The software set includes up to 4K 802.1Q VLAN and advanced Protocol VLAN, Private VLAN, MVR…features. There are 8 physical queues Quality of Service, IPv4/v6 Multicast filtering, Rapid Spanning Tree protocol to avoid network loop, Multiple Spanning Tree Protocol to integrate VLAN and Spanning Tree, LACP, LLDP; sFlow, port mirroring, cable diagnostic and advanced Network Security features. It also provides Console CLI for out of band management and SNMP, Web GUI for in band Management.

Advanced Security

The ALL-SG8826-PMX-10G supports advanced security features. For switch management, there are secured HTTPS and SSH, the login password, configuration packets are secured. The port binding allows to bind specific MAC address to the port, only the MAC has the privilege to access the network. The 802.1X port based Access Control, every user should be authorized first when they want to access the network. AAA is the short of the Authentication, Authorization and Accounting with RADIUS, TACAS+ server. Layer 2+ Access Control List allows user to define the access privilege based on IP, MAC, Port number etc.

Technical Data	
Interface	Number of Port: 10/100/1000BaseT(X) RJ-45 Port : 24, Auto-negotiation, Auto MDI/MDIX 1G SFP/10G SFP+: 2 Stacking slot: 2
Performance	Switching Capacity: 88G bps MAC Address Table Size: 32K Forwarding Rate: 95.2Mpps Packet Buffer: 4Mb
QoS Features	Number of Priority queue: 8 queues/ port Scheduling for priority queue : WRR/Strict Priority scheduling/Hybrid CoS : 802.1p/ IP Precedence/ IP TOS Precedence IP DSCP/ Port based Priority Rate Limiting: Ingress/Egress: 1Kbps/ 1pps granularity DiffServ (RFC2474) remarking
Security	User Name / Password Protection Stacking Unit: max 16 User Privilege: up to 15 levels IEEE 802.1x: Port-based Access Control IP Source Guard MAC Based Authentication Web-based Authentication HTTPS SSHv2 RADIUS: Authentication/ Accounting TACACS+: Authentication ACL (Access control list)
PoE Features	802.3af/at compliant Max. power output per port: 30W Power consumption : 250W / 500W Current Sharing Internal Power: In PD classification Power management: Enable/Disable per-port Priority setting per-port Overloading protection per-port

Errors, omissions and technical modifications that guarantee the progress and further development of the products excepted.
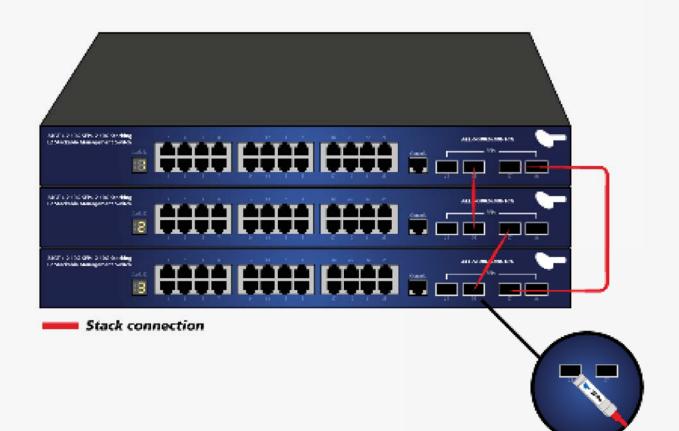
www.allnet.de

Technical Data	
L2 Features	Flow Control: 802.3x (Full-duplex) Back-Pressure (Half-duplex) Spanning Tree: IEEE 802.1D-2004 (Includes IEEE 802.1w): Rapid Spanning Tree Protocol 802.1s Multiple Spanning Tree Protocol Loop Detection VLAN: IEEE 802.1Q Tagged Based, Max. VLAN Group: 4K QinQ Port-based VLAN Voice VLAN Private VLAN MVR MAC-Based VLAN Protocol-Based VAN Link Aggregation: IEEE 802.3ad with LACP: 14 trunks/ up to 8 port per trunk Static Trunk: 14 trunks/ up to 8 port per trunk Max. Group:14 Max. Ports/Group:8 IGMP Snooping: IGMP Snooping v1/v2/v3 IPv6 MLD Snooping v1/v2 Queries support/ IGMP Filtering, IGMP Leave Proxy, Immediate Leave Storm Control: Broadcast/ Multi-cast/ Un-known Unicast Jumbo Frame Support: 10K
Management	Command Line Interface (CLI) Web Based Management Telnet Access Management Filtering: SNMP/ WEB/SSH/TELNET/ SNMP: v1/v2c/v3 RMON: RMON (1,2,3, & 9 groups) DHCP: Client/ Relay/ Option82/ Snooping Event/Error Log: Local Flash/ Remote Server Software Download/ Upgrade: HTTP Configuration Download / Upload sFlow Port Mirroring: One to One/ Many to One Remote Ping NTP/LLDP UPnP EEE Configuration Cable Diagnostics IPv6 Configuration

Technical Data	
Standard	Ethernet: IEEE 802.3, 802.3u, 802.3ab, 802.3ae IEEE 802.3az Energy Efficient Ethernet (EEE) Protocol: IEEE 802.3x - Flow Control, IEEE 802.1Q – VLAN, IEEE 802.1p - Class of Service, IEEE 802.1D - Spanning Tree, IEEE 802.1w - Rapid Spanning Tree, IEEE 802.1s - Multiple Spanning Tree, IEEE 802.3ad - Link Aggregation Control Protocol (LACP), IEEE802.1v - Protocol VLAN, IEEE 802.1AB - LLDP (Link Layer Discovery Protocol), IEEE 802.1X - Access Control
Power Input	100~240VAC
Mechanical	Dimension mm(H*W*D) : 50*445*335 Weight : 3.0 kg
Operating Temperature	0~40°C
Humidity	5~90% (non-condensing)
Marks	CE, FCC Class A

Web interface:

Errors, omissions and technical modifications that guarantee the progress and further development of the products excepted.

www.allnet.de

Web interface:

Errors, omissions and technical modifications that guarantee the progress and further development of the products excepted.

www.allnet.de

Example diagram:

10 gigabit stack switch ring solution

Stack connection

SFP+ 10G DAC

Accessories	
Article:	Description
114295	ALLNET Switch Modul, DAC(cabel), SFP+/SFP+, 10Gbit, 0,5m
113483	ALLNET Switch Modul, DAC(cabel), SFP+/SFP+, 10Gbit, 1m
113807	ALLNET Switch Modul, DAC(cabel), SFP+/SFP+, 10Gbit, 3m
101189	ALLNET Switch Modul ALL4757 SFP+(mini Gbic), 10Gbit Multimode, SR/LC
101190	ALLNET Switch Modul ALL4758 SFP+(mini Gbic), 10Gbit Singlemode, LR/LC
27947	ALLNET Switch Modul ALL4750 SFP(mini Gbic), 1000Mbit, SX/LC
59426	ALLNET Switch Modul ALL4751 SFP(mini Gbic), 1000Mbit, LX/LC, 10KM
59391	ALLNET Switch Modul ALL4753 SFP(mini Gbic), 1000Mbit, LHX/LC, 40KM
59393	ALLNET Switch Modul ALL4755 SFP(mini Gbic), 1000Mbit, ZX/LC, 80KM

Errors, omissions and technical modifications that guarantee the progress and further development of the products excepted.

www.allnet.de