

# Planet Switch managed 8 x 10/100/1000 PoE+ + 2 x SFP an DIN-Schiene montierbar wandmontierbar 200 W Gleichstrom

<b>Artikelnummer</b>	999947656
<b>Gewicht</b>	1kg
<b>Länge</b>	1mm
<b>Breite</b>	1mm
<b>Höhe</b>	1mm



## Produktbeschreibung

Planet Switch managed 8 x 10/100/1000 PoE+ + 2 x SFP an DIN-Schiene montierbar wandmontierbar 200 W Gleichstrom

Produktbeschreibung:

8-Port 10/100/1000BASE-T Gigabit RJ45 copper with IEEE 802.3at PoE+ Injector function 2 100/1000BASE-X mini-GBIC/SFP slots Power over Ethernet Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE Backward compatible with IEEE 802.3af Power over Ethernet Up to 8 ports of IEEE 802.3af/802.3at devices powered Supports PoE power up to 36 watts for each PoE port Auto detects powered device (PD) Circuit protection prevents power interference between ports Remote power feeding up to 100 meters PoE management - Total PoE power budget control - Per port PoE function enable/disable - PoE port power feeding priority - Per PoE port power limitation - PD classification detection - PD alive check - PoE schedule Industrial Case and Installation Compact size with fixed wall-mounted, magnetic wall-mounted or DIN-rail design IP30 metal case protection Supports -40 to 75 degrees C operating temperature Supports ESD 8KV DC Ethernet protection Dual power input design - 48V~56V DC wide power input with polarity reverse protect function - 3-pin terminal block or DC jack connector Switching Hardware based 10/100Mbps, half/full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation and auto MDI/MDI-X Features Store-and-Forward mode with wire-speed filtering and forwarding rates IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation 8K MAC address table size 10K jumbo frame Automatic address learning and address aging Supports CSMA/CD protocol Layer 2 Features Supports VLAN - IEEE 802.1Q tagged VLAN - Provider bridging (VLAN Q-in-Q, IEEE 802.1ad) support - Protocol VLAN - Voice

VLAN - Private VLAN (Protected port) - Management  
VLAN - GVRP Supports Spanning Tree Protocol -  
STP (Spanning Tree Protocol) - RSTP (Rapid Spanning  
Tree Protocol) - MSTP (Multiple Spanning Tree  
Protocol) - STP BPDU Guard,  
BPDU Filtering and BPDU Forwarding Supports Link  
Aggregation - IEEE 802.3ad Link Aggregation Control  
Protocol (LACP) - Cisco ether-channel (static  
trunk) Provides port mirror (many-to-1) Loop protection  
to avoid broadcast loops Quality of Service  
Ingress/Egress Rate Limit per port bandwidth control  
Traffic classification - IEEE 802.1p CoS - TOS/DSCP/IP  
precedence of IPv4/IPv6 packets Strict priority  
and Weighted Round Robin (WRR) CoS policies  
Multicast Supports IPv4 IGMP snooping v2,  
v3 Supports IPv6 MLD snooping v1, v2 IGMP querier  
mode support IGMP snooping port filtering MLD  
snooping port filtering Security Storm Control  
support - Broadcast/Unknown unicast/Unknown multicast  
Authentication - IEEE 802.1X port-based network  
access authentication - Built-in RADIUS client  
to cooperate with the RADIUS servers - DHCP Option  
82 - RADIUS/TACACS+ authentication Access Control  
List - IPv4/IPv6 IP-based ACL - IPv4/IPv6 IP-based  
ACE - MAC-based ACL - MAC-based ACE MAC Security  
- Static MAC - MAC filtering Port security for  
source MAC address entries filtering DHCP snooping  
to filter distrusted DHCP messages Dynamic ARP  
inspection discards ARP packets with invalid MAC  
address to IP address binding IP source guard  
prevents IP spoofing attacks DoS attack prevention  
SSH/SSL Management IPv4 and IPv6 dual stack  
management Switch Management Interface - IPv4/IPv6  
Web switch management - Telnet Command Line Interface - SNMP v1,  
v2c, v3 - SSH and SSL secure access User privilege  
levels control Built-in Trivial File Transfer  
Protocol (TFTP) client Static and DHCP for IP  
address assignment System Maintenance - Firmware  
upload/download via HTTP/TFTP - Configuration  
upload/download through HTTP/TFTP - Hardware reset  
button for system reboot or reset to factory default  
SNTP Network Time Protocol Cable diagnostics Link  
Layer Discovery Protocol (LLDP) Protocol and LLDP-MED  
SNMP trap for interface Link-up and Link-down  
notification Event message logging to remote Syslog  
server Four RMON groups (history,  
statistics, alarms and events) PLANET Smart Discovery  
Utility Easily-deployed and Expanded Network  
Designed to be installed in a wall enclosure or  
simply mounted on a wall in any convenient location,  
PLANET WGS-4215-8P2S, an innovative, Industrial  
8-port 10/100/1000T 802.3at PoE + 2-port 100/1000X  
SFP Wall-mounted Managed Switch,  
offers IPv6/IPv4 dual stack management, intelligent  
Layer 2 management functions,  
and user-friendly interface. The WGS-4215-8P2S  
is able to operate reliably,  
stably and quietly in any environment without

affecting its performance.

With a total power budget of up to 200 watts for different kinds of PoE applications and featuring ultra networking speed and operating temperature ranging from -40 to 75 degrees C in a compact but rugged IP30 metal housing, the WGS-4215-8P2S is an ideal solution to meeting the demand for the following network applications: ?? Building/Home automation network ?? Internet of things (IoT) ?? IP surveillance ?? Wireless LAN Built-in Unique PoE Functions for Powered Devices Management As it is the managed PoE switch for surveillance, wireless and VoIP networks, the WGS-4215-8P2S features the following special PoE management functions: ?? PD alive check ?? Scheduled power recycling ?? PoE schedule ?? PoE usage monitoring Intelligent Powered Device Alive Check The WGS-4215-8P2S can be configured to monitor connected PD (Powered Device) status in real time via ping action. Once the PD stops working and responding, the WGS-4215-8P2S will resume the PoE port power and bring the PD back to work.

It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.

**Scheduled Power Recycling** The WGS-4215-8P2S allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week.

Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.

**PoE Schedule for Energy Saving** Under the trend of energy saving worldwide and contributing to environmental protection, the WGS-4215-8P2S can effectively control the power supply besides its capability of giving high watts power.

The "PoE schedule" function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and budget. It also increases security by powering off PDs that should not be in use during non-business hours.

**Innovative Wall-mount Installation** The WGS-4215-8P2S is specially designed to be installed in a narrow environment, such as wall enclosure or electric weak box. The compact, flat and wall-mounted design fits easily in any space-limited location.

It adopts the user-friendly "Front Access" design, making the installing, cable wiring, LED monitoring and maintenance of the WGS-4215-8P2S placed in an enclosure very convenient for technicians. The WGS-4215-8P2S can be installed by fixed wall mounting, magnetic wall mounting or DIN rail, thereby making its usability more flexible.

**Environmentally Hardened Design** With IP30, flat but rugged metal housing protection,

the WGS-4215-8P2S provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets without air conditioner.

Being able to operate under the temperature range from -40 to 75 degrees C, the WGS-4215-8P2S can be placed in almost any difficult environment.

IPv6/IPv4 Dual Stack Management Supporting both IPv6 and IPv4 protocols,

the WGS-4215-8P2S helps the SMBs to step in the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.

Robust Layer 2 Features The WGS-4215-8P2S can be programmed for advanced switch management functions such as dynamic port link aggregation, 802.1Q VLAN, Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP),

Loop and BPDU Guard, IGMP Snooping, and MLD Snooping.

Via the link aggregation, the WGS-4215-8P2S allows the operation of a high-speed trunk to combine with multiple ports such as a 16Gbps fat pipe, and supports fail-over as well. Also, the Link Layer Discovery Protocol (LLDP) is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.

Efficient Traffic Control The WGS-4215-8P2S is loaded with robust QoS features and powerful traffic management to enhance services to business-class data, voice, and video solutions. The functionality includes broadcast/multicast/unicast storm control, per port bandwidth control, 802.1p/CoS/IP DSCP QoS priority and remarking.

It guarantees the best performance in VoIP and video stream transmission, and empowers the enterprises to take full advantage of the limited network resources.

Friendly and Secure Management For efficient management, the WGS-4215-8P2S is equipped with web, Telnet and SNMP management interfaces.

With the built-in web-based management interface, the WGS-4215-8P2S offers an easy-to-use, platform-independent management and configuration facility.

By supporting the standard SNMP, the switch can be managed via any standard management software.

For text-based management, the switch can be accessed via Telnet.

Moreover, the WGS-4215-8P2S offers secure remote management by supporting SSH, SSL and SNMP v3 connections which encrypt the packet content at each session.

Advanced Network Security PLANET WGS-4215-8P2S offers a comprehensive IPv4/IPv6 Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge. Its protection mechanism also comprises 802.1X port-based user and device authentication, which can be deployed with RADIUS to ensure the

port level security and block illegal users.

With the protected port function, communication between edge ports can be prevented to guarantee user privacy. Furthermore, the WGS-4215-8P2S also provides DHCP snooping, IP source guard and dynamic ARP inspection functions to prevent IP snooping from attack and discarded ARP packets with invalid MAC address.

The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

Flexibility and Long-distance Extension Solution

The two mini-GBIC slots built in the WGS-4215-8P2S support SFP auto-detection and dual speed as it features 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceivers to uplink to backbone switch and monitoring center in long distance. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and up to 10/20/30/40/50/60/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

Intelligent SFP Diagnosis Mechanism The WGS-4215-8P2S supports SFP-DDM (Digital Diagnostic Monitor) function that can easily monitor real-time parameters of the SFP for network administrator, such as optical output power, optical input power, temperature, laser bias current and transceiver supply voltage.

Technische Details:

Allgemein

Gerätetyp

Switch - 8 Anschlüsse - managed

Gehäusetyp

An DIN-Schiene montierbar, wandmontierbar

Untertyp

Gigabit Ethernet

Ports

8 x 10/100/1000 (PoE+) + 2 x SFP

Power Over Ethernet (PoE)

PoE+

PoE-Budget

200 W

Leistung

Switching Fabric-Bandbreite: 20 Gbit/s

Durchsatz (64-Byte Paketgröße): 14,8 Mpps

Größe der MAC-Adresstabelle

8000 Einträge

Jumbo-Rahmenunterstützung

10KB

Routing Protocol

IGMPv2, IGMP, IGMPv3, MLDv2, MLD

Remoteverwaltungsprotokoll

SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, TFTP, SSH

Verschlüsselungsalgorithmus

SSL

Authentifizierungsmethode

Secure Shell (SSH), RADIUS, TACACS+

Leistungsmerkmale

Flusskontrolle, ARP-Unterstützung, VLAN-Unterstützung, Auto-Uplink (Auto MDI/MDI-X), IGMP Snooping, Weighted Round Robin (WRR) Queuing, Store-and-Forward, IPv6-Unterstützung, Halbduplex-Modus, Vollduplex-Modus, Firmware aktualisierbar, Spanning Tree Protocol (STP) Support, unterstützt Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP) Support, DHCP-Snooping, Trivial File Transfer Protocol (TFTP) Support, Access Control List (ACL) Support, Quality of Service (QoS), MLD-Snooping, IPv4-Unterstützung, LLDP-Support, SNMP-Unterstützung, unterstützt DiffServ Code Point (DSCP), Back Pressure Support, Internet Control Message Protocol (ICMP)

Produktzertifizierungen

IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3at

Statusanzeiger

Stromversorgung, PoE, Link/Aktivität

Erweiterung/Konnektivität

Schnittstellen

8 x 1000Base-T RJ-45 PoE+ - 36 W

2 x 1000Base-X SFP

Stromversorgung

Erforderliche Netzspannung

DC 48 - 56 V

Leistungsaufnahme im Betrieb

210 Watt

Verschiedenes

Produktzertifizierungen

FCC Part 15 A

Maße und Gewicht

Breite

17,8 cm

Tiefe

2,5 cm

Höhe

13,4 cm

Gewicht

640 g

Umgebungsbedingungen

Min Betriebstemperatur

-40 °C

Max. Betriebstemperatur

75 °C

Zulässige Luftfeuchtigkeit im Betrieb

5 - 95 % (nicht kondensierend)

Min. Lagertemperatur

-40 °C

Max. Lagertemperatur

85 °C

Zulässige Luftfeuchtigkeit bei Lagerung

5 - 95 % (nicht kondensierend)

## Produkteigenschaften

<b>Netzwerk - Formfaktor</b>	An DIN-Schiene montierbar, Wandmontierbar
<b>Bereitgestellte Schnittstelle - Schnittstellen</b>	8 x 1000Base-T RJ-45 PoE+ - 36 W, 2 x 1000Base-X SFP
<b>Gewicht</b>	640 g
<b>Netzwerk - Typ</b>	Switch
<b>Ports - Typ</b>	10/100/1000 (PoE+)
<b>Statusanzeiger</b>	Link/Aktivität, PoE, Stromversorgung
<b>Größe der MAC-Adresstabelle</b>	8000 Einträge
<b>Verschlüsselungsalgorithmus</b>	SSL
<b>Leistung</b>	Switching Fabric-Bandbreite: 20 Gbit/s, Durchsatz (64-Byte Paketgröße): 14,8 Mpp
<b>Leistungsaufnahme im Betrieb</b>	210 Watt
<b>Untertyp</b>	Gigabit Ethernet
<b>Farbkategorie</b>	Schwarz
<b>Anz. Anschlüsse</b>	8
<b>Ports (zweite) - Typ</b>	SFP (mini-GBIC)

## Weitere Bilder

