

Netis ST118GPDI-2MS-150

Technical datasheet

HZone PDF edition of the original Netis English Word datasheet

This PDF reflows the manufacturer's existing English document for convenient reading. It is an HZone-prepared PDF conversion, not an original manufacturer PDF or a newly translated specification. The original Word file is preserved unchanged.

Stock configuration note

HZone owner-confirmed stock: 14 Gigabit PoE ports + 2 Gigabit RJ45 uplink ports + 2 x 2.5Gbps SFP uplinks. The source document contains contradictory port descriptions: its cover begins with 14 PoE ports, while the feature and hardware sections say 16 PoE ports. Its isolation instructions identify ports 15-18 as uplinks. Manufacturer table wording is reproduced below without silently changing that conflict.

The source also uses the label SFP+ for its 2500Mbps interfaces. This edition does not claim 10Gbps support. Product compatibility and total PoE load should be confirmed for the actual installation.

Original document

<https://oss.netis-systems.com/file/3302SFt6xm.docx>

Original SHA-256: 76711117a56698b8a7939f089fd506bf60e1d871ef729c3e6caa9b266d6e6851

[Official product page](#)

Manufacturer overview

The ST118GPDI-2MS-150 is an 18-port unmanaged PoE switch featuring an upstream 2.5G SFP. It includes 16 10/100/1000M RJ45 Ethernet ports and 2 *2500M SFP ports. The switch supports four levels of dip switch settings: standard mode, port isolation, port aggregation, and extended mode (covering ports 9-12). It requires no complex configuration and provides a range of advanced business features, making it suitable for network access in settings such as hotels, supermarkets, parks, and campuses.



Front view extracted unchanged from the original document

Manufacturer key features

Full gigabit flexible networking, choose between electrical and optical ports freely

16*Gigabit PoE ports + 2*2.5G SFP + uplink ports. The optical and electrical interfaces can be switched at will, adapting to the deployment requirements of various scenarios, providing more flexible high-speed connections.

Prioritize key services, smooth and without lag

When the network is congested, VIP ports (ports 1-4) are given priority for forwarding, reducing latency and stalling, ensuring the experience of important services.

6Kv professional port lightning protection, unafraid of severe weather like thunderstorms

The ports are equipped with 6Kv lightning protection design, ensuring the stable operation of equipment during thunderstorm weather and reducing equipment failure and interruption.

Intelligent PoE power management, safe and stable operation

Intelligent power distribution, giving priority to the power supply of lower-end ports, preventing equipment from overloading for a long time, and extending the service life.

Intelligent watchdog for automatic detection and restart of malfunctioning cameras

Automatically detects malfunctioning devices and restarts them, without the need for manual intervention, making maintenance easier and more worry-free.

PSE chip power supply, highly compatible, and protects non-PoE devices at the same time

Using standard PSE chips, automatically identifies PoE devices and supplies power, supporting 802.3at/af, with a maximum output of 30W per port, making it safer and more reliable.

One-click mode flexible switching, convenient deployment

One-click mode switching, supporting "standard mode, port isolation, port aggregation, extended mode (9-12 ports)", no need for complex settings, making network management easy to handle, suitable for various business scenarios.

Isolation mode: Ports 15-18 are uplink ports, can communicate with other ports, ports 1-14 cannot communicate;

Aggregation mode: Ports 15 and 16 are aggregated, ports 17 and 18 are aggregated;

Extended mode: Ports 9-12 are forced to 10M mode, with a maximum support of 250 meters (requires terminal adapter support).

Manufacturer performance and recovery descriptions above are reproduced as source statements. They are not a promise of uninterrupted operation or recovery from every fault.

LED indicators

Indicator	State	Manufacturer description
PWR	On	The switch is powered on.
PWR	Off	The switch is powered off.
SYS	ON	System is running.
SYS	Off/Flash	System is abnormal.
Port Indicator (Link/ACT)	On	The corresponding port is connected to a network device but no activity. Yellow:link rate is 10/100M. Green:link rate is 1000M.
Port Indicator (Link/ACT)	Flashing	Data is transmitting through the corresponding port.
Port Indicator (Link/ACT)	Off	No device is connected to the corresponding port.
PoE MAX	On	Lights up when the PoE power supply exceeds threshold value.
PoE MAX	Flashing	PoE power supply reaches the maximum PoE output.
PoE MAX	Off	the PoE power supply did not exceed threshold value.
Mode	On	mode status of the equipment normal mode Port isolation Aggregation Extension
Mode	Flashing	Switching mode
Mode	Off	The current mode is not active.

A repeated indicator name replaces merged blank source cells for readability; the state and description text are unchanged.

Hardware specifications

Parameter	Manufacturer specification
Chips	RTL8382BL+RTL8218E-VH-CG+2*RTL8231-GR+2*RTL8238C-CG
Ports	16*1000Mbps PoE ports 2*2500Mbps SFP+ uplink ports
DIP Switch	Normal/Port isolation/Aggregation/Extension
Backplane Bandwidth	42Gbps
MAC Address Table	16K
Input Power	100-240V~ 50/60Hz
Power Supply	150W
Maximum PoE Output Power	130W

Port-count conflict: the 16-PoE row is retained verbatim from Netis. HZone stock is separately confirmed as 14 PoE + 2 RJ45 uplinks + 2 SFP uplinks; see the first-page note.

Network media and transmission distance

Network Media & Transmission Distance	1000BASE-T: UTP category 5, 5e, 6 or above cable (<= 100m) 100Base-TX: UTP category 5, 5e, 6 Category 5 (Cat5) or higher UTP/STP cables (<=100m) 10Base-TX: UTP category Category 6 (Cat6) or higher UTP/STP cables (<=250m) Tips:The actual transmission distance is related to the connected terminal/network cable type and condition; it is recommended to use Category 6 cable preferentially.
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Basic functions

Complies with IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet protocol standards
Compatible with IEEE 802.3af/at compliant powered devices (PD)
Compatible with certified non-standard powered devices (PD)
Supports store-and-forward switching
Supports full power output
Supports automatic MAC address learning and aging
Extended cable transmission,supports long-distance monitoring power supply
Supports IEEE 802.3X full-duplex flow control and Backpressure half-duplex flow control

Ethernet protocols and standards

IEEE 802.3 10BASE-T Ethernet
IEEE 802.3i 10BASE-T Ethernet
IEEE 802.3u 100BASE-TX Fast Ethernet
IEEE 802.3ab 1000BASE-T Gigabit Ethernet
IEEE 802.3bz 2500 BASE-X
IEEE 802.3af/at, Power over Ethernet
IEEE 802.3x Flow Control

Environmental and physical specifications

Parameter	Manufacturer specification
Temperature	Operating Temperature:0 degC ~ 45 degC(32 °F ~113°F) Storage Temperature:-40 degC ~ 70 degC(-40°F ~158°F)
Humidity	Operating Humidity:10% ~ 90% RH(non-condensing) Storage Humidity:5% ~ 90% RH(non-condensing)
Lightning surge protection - Common Mode	6KV
Dimensions (W x D x H)	330*180.9*45mm(12.99x7.08x1.77 in)
Protective Packing	EPE protection
Storage Temperature	-40 degC ~ 70 degC(-40°F ~158°F),with the most suitable storage condition being room temperature considering humidity
Storage Precautions	Store in a clean,ventilated environment free from corrosive gases,flammable,explosive,and other hazardous chemicals.Keep away from heat sources and sources of strong mechanical vibration
Storage Period	Under the above conditions,the product can be stored for one year.It is recommended to re-inspect and test the product after two years before use

Source storage guidance is reproduced for completeness. It is not the HZone sales warranty. Warranty, availability and selling terms come from the product's current HZone/ERP record.

Manufacturer product views and cover artwork



Front



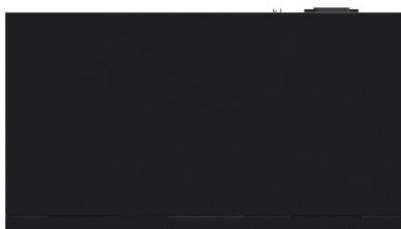
Front left



Front right



Rear



Top



Original cover artwork

Source cover wording

14x1000Mbps PoE ports and 2*1000Mbps PoE ports+2 *2x2.5G SFP uplink ports

The cover wording is reproduced once; duplicate underlying Word text-box fallback copies are not repeated. Original document and source URL are identified on page1.