



## Model : **ON-P7052XGSM**

**48 port 10/100/1000Mbps POE + 4 10G SFP port  
+ 1 Console port L2+ Managed Gigabit PoE  
Switch**



### Product Description:

ON-P7052XGSM is a Layer 2+ managed Gigabit PoE Switch that features intelligent PoE functions to improve the availability of critical business applications. It provides **IPv6/IPv4 management** and built-in L2+ Gigabit Switching engine along with 48\*10/100/1000BASE-T ports featuring **30-watt 802.3at PoE+** and **4\*10G SFP+ fiber slots**. With a total power budget up to 400W for different kinds of PoE applications, can provides quick, safe and cost-effective Power over Ethernet network solutions to security IP surveillance for small businesses and enterprises.

ON-P7052XGSM is programmed for advanced switch management functions such as **802.1Q VLAN** and **Q-in-Q VLAN**, **Multiple Spanning Tree protocol (MSTP)**, **loop** and **BPDU guard**, **IGMP snooping**, and **MLD snooping**. 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.

### Feature:

- ◆ Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, 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

## Hardware Specification:

Model	ON-P7052XGSM
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
PoE Ports	1~48-802.3af/802.3at PoE Injector Ports
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	32 Mb
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	< 5 sec: System reboot > 5 sec: Factory default
Power Supply	100~240V AC, 50/60Hz, 4A (max.)
Power Consumption	Max.400 watts/1122 BTU
PoE Standards	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	Per Port 52V DC, 300mA. Max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. Max. 30 watts (IEEE 802.3at)
LED Indicators	System: Power (Green) 10/100/1000T RJ45 Interfaces (Port 1 to Port 48): 1000 LNK/ACT (Green), 10/100 LNK/ACT (yellow), PoE (yellow) 1G/10GMbps SFP Interfaces (Port 49 to Port 52): 1G/10G LNK/ACT (Blue)
EMC	Surge Immunity : 4KV Per: IEC61000-4-5  ESD Protection : ESD Level 4 Per: IEC61000-4-2 EFT Level 4 Per: IEC61000-4-4
Dimension	440*290*44.5 mm
Weight	6.5kg
Working Temperature	-10 °C to 45°C
Storage Temperature	-20°C to 70 °C
MTBF	50,000hrs

## Layer 2 functions:

Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor Traffic statistics
Link Aggregation	Static link aggregation LACP Algorithm based on Source/Destination MAC

	Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	8K Active VLANs 8K 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	64 ACLs L2, L3 e L4 Time-based ACL
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
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN
QOS	8 mapping IDs to 8 level priority queues CoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection
Management	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration Backup/Reload LLDP
Synchronization, IEEE1588	Support IEEE1588v2 transparent clock
Other Features	DNS Client

	DHCP Relay DHCP Client DHCP Snooping DHCP Option 82 NTP/SNTP Client UPNP UDLD
PoE management	Total PoE power budget control Per port PoE function enable/disable PoE admin-mode control PoE port power feeding priority Per PoE port power limitation PD classification detection PD alive check PoE schedule Perpetual POE
Maintenance	Cable Diagnostics Ping SFP DDM(Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

### Layer 2+ functions:

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

### Order Information:

Product Model: ON-P7052XGSM

Product Description: 48-Port 10/100/1000BASE-T 802.3at PoE +4-10G SFP+ port, 1x console port. 1~48 RJ45 ports support PoE power supply function , IEEE802.3af/at standard. Max Power per PoE Port: 30W ; Switch's total power: 440W.

Order note: 1. Default PoE power supply type is end-span, mid-span optional

2. SFP module is not included, need to order it separately

Package lists	48-Port 10/100/1000BASE-T 802.3at PoE +4-10G SFP+ Managed PoE Switch
	Power Cable
	Mounting Kits
	Warranty Card
	User Guide