Product Datasheet

6-port Gigabit Easy Managed Industrial Ethernet Switch (ONV-IPS53064FGM)



OVERVIEW

The ONV-IPS53064FGM is a Gigabit Easy managed industrial Ethernet fiber switch independently developed by ONV. It has 5*10/100/1000Base-T adaptive RJ45 ports and 1*100/1000Base-X uplink SFP fiber port. Each port can support wire-speed forwarding. The ONV-IPS53064FGM can support Web management, ONV-NMS management platform, and mobile APP cloud platform management, which can realize functions such as security network topology management, link aggregation, port management, port mirroring, and remote operation and maintenance. The switch has high reliability, easy installation and maintenance, a fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales. It is suitable for intelligent

transportation, rail transportation, electric power industry, mining, petroleum, shipping, metallurgy green energy construction, and other industrial scenarios to build an economical, efficient, stable, and reliable communication network.

FEATURE

■ Gigabit access, uplink SFP fiber port

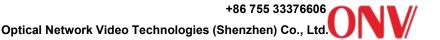
- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Extreme Optimization, minimalist application

- ♦ Real-time fault alarm and fault location.
- ♦ Remote upgrade, remote restart, and factory reset.
- Local platform, cloud platform, and mobile APP operation and maintenance management.
- Visual network topology management, VLAN division, port control, and switching capacity management.
- Practical network management functions are retained according to industry application requirements, and network deployment and centralized operation and maintenance can be quickly realized through the operation and maintenance platform.

Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, Link, and L/A.
- ♦ Low power consumption, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.



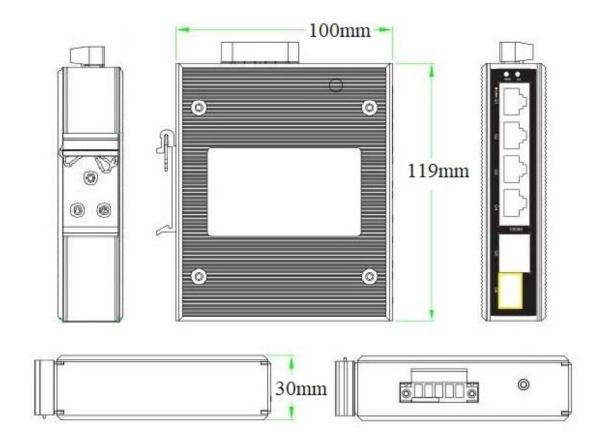
TECHNICAL SPECIFICATION

| Model | ONV-IPS53064FGM | | |
|---------------------------|--|--|--|
| Interface Characteristics | | | |
| E: 10 1 | 1*DC5521 power socket | | |
| | 5*10/100/1000Base-T RJ45 ports (Data) | | |
| Fixed Port | 1*100/1000Base-X uplink SFP fiber port (Data) | | |
| | 2 sets V+, V- redundant DC power port (5P phoenix terminal) | | |
| Ethernet Port | Port 1-5 can support 10/100/1000Base-T auto-sensing, full/ half duplex | | |
| Ethernet Port | MDI/ MDI-X self-adaption | | |
| Twisted Pair | 10BASE-T: Cat3,4,5 UTP (≤100 meters) | | |
| Transmission | 100BASE-TX: Cat5 or later UTP (≤100 meters) | | |
| Hansinission | 1000BASE-T: Cat5e or later UTP (≤100 meters) | | |
| Ontical Fiber Port | Gigabit optical fiber interface, default no include optical module (optional | | |
| Optical Fiber Port | single-mode/ multi-mode, single fiber/ dual fiber optical module. LC) | | |
| Optical Cable/ | Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ | | |
| Distance | 0-120km. | | |
| Chip Parameter | | | |
| Network | L2 | | |
| Management Type | LZ | | |
| Nativally Distance | IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, | | |
| Network Protocol | IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x | | |
| Forwarding Mode | Store and Forward (Full wire-speed) | | |
| Switching Capacity | 12Gbps (non-blocking) | | |
| Forwarding Rate | 8.93Mpps | | |
| @64byte | | | |
| MAC | 2K | | |
| Buffer Memory | 2M | | |
| Jumbo Frame | 9.2K | | |

| Power/ System: SYS (Green), Fiber port: L/A (Green), Network: LED Indicator (Yellow) | | |
|--|---|--|
| Reset Switch | Press for 6 seconds and then release to restore to factory settings Short press twice (1 second interval) to switch to unmanaged state | |
| Power Supply | | |
| Power Consumption | Standby<4W, Full load<6W | |
| Working Voltage | DC12-48V, 5P industrial phoenix terminal, anti-reverse protection | |
| Power Supply | No, optional 12V/24W or 24V/24W industrial power supply | |
| Physical Parameter | | |
| Operation Temp/ Humidity | -40~+75°C, 5%~90% RH Non condensing | |
| Storage Temp/ Humidity | -40~+85°C, 5%~95% RH Non condensing | |
| Dimension (L*W*H) 119*100*30mm | | |
| Net /Gross Weight | 0.4kg / 0.5kg | |
| Installation | Desktop, 35mm DIN Rail | |
| Certification & Warranty | | |
| | Protection level: IP40 | |
| | Lightning protection: 6KV 8/20us | |
| | IEC61000-4-3 (RS):10V/m (80~1000MHz) | |
| | FCC Part 15/CISPR22 (EN55022): Class B | |
| | IEC61000-6-2 (Common Industrial Standard) | |
| Lightning Protection | IEC61000-4-9 (Pulsed magnet field): 1000A/m | |
| | IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz | |
| | IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV | |
| | IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV | |
| | IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s | |
| | IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge | |
| | IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) | |

| | IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m, 1s-3s | | |
|--|--|--|--|
| | IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV | | |
| Mechanical | IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27 | | |
| Properties | (Anti Shock) | | |
| | CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, | | |
| Certification | RoHS | | |
| Warranty | 5 years, lifelong maintenance. | | |
| Network Management Feature | | | |
| | IEEE802.3x flow control configuration (Full-duplex) | | |
| Interface | Port status display, Port duplex/negotiation rate configuration | | |
| | EEE Energy-saving and green Ethernet function, Port traffic statistics | | |
| VLAN Port-based IEEE802.1Q VLAN configuration (4K) | | | |
| Port Aggregation | Static aggregation | | |
| Loop Protection | Loop protection function | | |
| Multicast | IGMP Snooping v1/v2, Max 256 multicast groups | | |
| Port Mirroring | Bidirectional data mirroring based on port | | |
| QoS | Diff-Serv QoS, 8*Output queues of each port, 802.1p/DSCP priority | | |
| Q03 | mapping, Priority Mark/Remark | | |
| Security | Broadcast storm control, Port isolation, Port speed limit | | |
| DHCP | DHCP Snooping | | |
| Management | Mobile APP operation and maintenance management | | |
| | One-key recovery, Cable Diagnose, Web Management (https) | | |
| | ONV-NMS platform management (Local platform/Cloud platform) | | |
| | Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or | | |
| | higher, Category 5 and above Ethernet cables | | |
| System | TCP/IP, network adapter, and network operating systems (Such as | | |
| | Microsoft Windows, Linux or Mac OS X) are installed on each computer in | | |
| | the network with Category 5 and above Ethernet cables | | |

DIMENSION



ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|---|--|--------------------------|
| ONV-IPS53064FGM | Easy managed industrial Ethernet switch with 5*10/100/1000M RJ45 ports and 1*100/1000M uplink SFP fiber port. It can support dual DC power supply input and DIN Rail mounting. | 24W |
| Note: The optical module and power supply are not included and need to be purchased. | | |

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|--|-----|------|
| | 6-port gigabit Easy managed industrial Ethernet switch | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card and Certificate of Conformity | 1 | PC |

OPTICAL MODULE

| Product | Model | Description | Unit |
|----------------------------|-------------|--|------|
| 1.25G Optical Module | 2630-G | Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. supports DDM function and hot plugging. | PC |
| | 2632-G | Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging. | PC |
| | 2612-T-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging. | PC |
| | 2613-R-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging. | PC |
| | 2612-T-SC-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging. | PC |
| | 2613-R-SC-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging. | PC |

POWER SUPPLY

| Product | Model | Description | Unit |
|--|-------------|---|------|
| 24W DIN Rail Industrial Power Supply | GWS-DP24-12 | DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC12V, 2.0A Operation Temperature: -40℃ to +70℃ | PC |
| 24W DIN Rail Industrial Power Supply | GWS-DP24-24 | DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40℃ to +70℃ | PC |

RELATED PRODUCT

| Model | Description | | |
|----------------|---|--|--|
| | L2 Easy managed industrial Ethernet fiber switch with 4*10/100/1000M | | |
| ONV-IPS53064FM | RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support dual | | |
| | DC power supply input and DIN rail mounting. | | |
| ONV-IPS53008M | L2 Easy managed industrial Ethernet switch with 8*10/100/1000M RJ45 | | |
| | ports. It can support dual DC power supply input and DIN Rail mounting. | | |
| ONV-IPS53108FM | L2 Easy managed industrial Ethernet fiber switch with 8*10/100/1000M | | |
| | RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support dual | | |
| | DC power supply input and DIN rail mounting. | | |

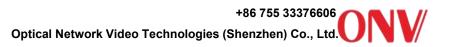
CONTACT US

ONV Optical Network Video Technologies (Shenzhen) Co., Ltd.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT



Email: onv@onv.com.cn

Skype: onv@onv.com.cn

Website: www.onvcom.com

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen

Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333,

Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

