Product Datasheet

36-port 10G Uplink L3 Managed Ethernet Fiber Switch

(ONV38036FM)



OVERVIEW

The ONV38036FM is a 10G uplink L3 managed Ethernet fiber switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 8*100/1000Base-X SFP ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding.

The ONV38036FM has L3 network management function, support IPV4/IPV6 management, dynamic routing and forwarding, complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

FEATURE

■ Full Gigabit access, 10G SFP+ fiber port uplink

- Supports Gigabit Ethernet port and gigabit SFP fiber slot port and 1/10G SFP+ fiber slot port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

■ Strong business processing capability

- ♦ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ♦ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- ♦ IGMP V1/V2 and IGMP Snooping.
- ♦ ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.

Security

- ♦ 802.1X authentication.
- ♦ Port isolation,Storm control.
- ♦ IP-MAC-VLAN-Port binding.

Stable and reliable

- ♦ CCC,CE, FCC, RoHS.
- ♦ Low power consumption, galvanized steel casing. The fan active cooling.
- Self-developed power supply, high redundancy design, providing a long term and stable power output.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR,

Link/Act.

■ Easy operation and maintenance management

- ♦ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- ♦ HTTPS, SSLV3, and SSHV1/V2.
- ♦ RMON, system log, LLDP, and port traffic statistics.
- ♦ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

| Model | ONV36036FM | ONV38036FM | |
|-----------------------|--|--|--|
| Interface Characteris | Interface Characteristics | | |
| | 24*10/100/1000Base-T RJ45 ports (E | Pata) | |
| Fixed Port | 8*100/1000Base-X SFP ports (Data) | | |
| Tixed Fort | 4*1/10G SFP+ fiber slot ports (Data) | | |
| | 1*Console RS232 port (115200,N,8,1 |) | |
| Ethernet Port | Port 1-24 support 10/100/1000Base-7 | Γ,auto-sensing,Full/half duplex | |
| Linemetroit | MDI/MDI-X self-adaption | | |
| Twisted Pair | 10BASE-T: Cat3,4,5 UTP(≤100 mete | r) | |
| Transmission | 100BASE-TX: Cat5 or later UTP(≤100 | O meter) | |
| Hansinission | 1000BASE-T: Cat5e or later UTP(≤10 | 00 meter) | |
| | 1/10G SFP+ optical fiber port, default | no include optical modules | |
| Optical Fiber Port | (optional order single-mode / multi-mo | ode, single fiber / dual fiber optical | |
| | module. LC) | | |
| Optical Fiber Port | Support Turbo overclocking 2.5G opti | cal module expansion and ring | |
| Expansion | network | | |
| Optical Cable/ | Multi-mode: 850nm / 0~500M(1.25G) | , 0~300M(10G), | |

| Distance | Single-mode: 1310nm / 0~ 40KM, 1550nm / 0~120KM. | |
|--------------------|--|-----------------------------------|
| Chip Parameter | | |
| Network | L2+ | L3 |
| Management Type | | |
| | IEEE802.3 10BASE-T, IEEE802.3i 10 |)Base-T, IEEE802.3u 100Base-TX |
| Network Protocol | IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae | |
| | 10GBase-SR/LR, IEEE802.3x | |
| Forwarding Mode | Store and Forward(Full Wire Speed) | |
| Switching Capacity | 598Gbps | |
| Forwarding | 107.14Mpps | |
| Rate@64byte | | |
| CPU | 500MHz | |
| DRAM | 2G | |
| FLASH | 128M | |
| MAC | 32K | |
| Buffer Memory | 32M | |
| Jumbo Frame | 9.6K | |
| LED Indicator | Power: PWR (Yellow), System: SYS(| Yellow), Network: Link (Yellow), |
| LED indicator | Fiber port: L/A (Green) | |
| Reset Switch | Yes, press and hold the switch for 10 | seconds and release it to restore |
| Neset Owiter | the factory settings | |
| Power Supply | | |
| Total PWR / Input | 60W/(AC100-240V) | |
| Voltage | 00 W/(A0 100-240 V) | |
| Power Consumption | Standby<20W, Full Load<45W | |
| Power Supply | Built-in power supply, AC 100~240V | 50-60Hz 1.0A |
| Physical Parameter | | |
| Operation TEMP / | -20~+55°C, 5%~90% RH Non conder | nsing |
| | | |

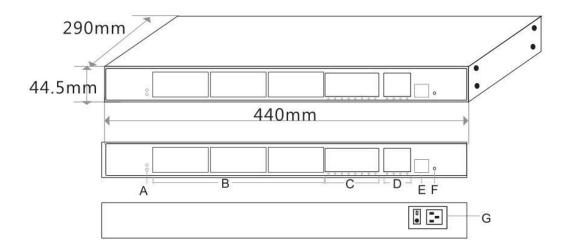
| Humidity | | | |
|-------------------------|--|-------------------------------|--|
| Storage TEMP / Humidity | -40~+80°C, 5%~95% RH Non conde | nsing | |
| Dimension (L*W*H) | 440*290*44.5mm | | |
| Net /Gross Weight | <3.5kg / <4.3kg | | |
| Installation | Desktop, 19 inch 1U cabinet installati | ion | |
| Certification & Warra | anty | | |
| Lightning Protection | Lightning protection: 4KV 8/20us, Pro | otection level: IP30 | |
| Contification | CCC, CE mark, commercial, CE/LVD | EN60950, FCC Part 15 Class B, | |
| Certification | RoHS | | |
| Warranty | 3 years, lifelong maintenance. | | |
| Network Manageme | nt Features | | |
| | IEEE802.3X (Full-duplex) | | |
| | Port temperature protection setting | | |
| | No connection port automatic sleep | | |
| | Port green Ethernet Energy-saving setting | | |
| Interface | Broadcast storm control based on port speed | | |
| | SFP+ optical port DDMI real-time digital diagnosis | | |
| | The speed limit of the message flow in the access port, minimum particle | | |
| | size is 64Kbps. | | |
| | L2+ network management | IPV4 Equal Cost Routing | |
| | ARP protocol, maximum 1024 | NG protocol, maximum 1000 | |
| | entries | entries | |
| Layer 3 Features | IPV4/IPV6 static route/default route | ARP protocol, maximum 1000 | |
| | supports up to 128 entries | entries | |
| | Layer 3 routing and forwarding, | Pingv6, Telnetv6, TFTPv6, | |
| | support communication between | DNSv6, ICMPv6 | |
| | different network segments and | IPV4/IPV6 VRRP, the maximum | |
| | different VLANs | group is 255 | |

| supports up to 128 IPV4/IPV6 static route/default route supports up to 128 entries L3 network management function, IPV4/IPV6 dual-stack management IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. LACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol MLD Snooping v1/v2, Multicast VLAN IGMP Snooping v1/v2, Multicast VLAN IGMP Snooping v1/v2, Multicast groups, Fast log out | | | IPV4/IPV6 VLANIF interface | |
|---|------------------|---|----------------------------------|--|
| route supports up to 128 entries L3 network management function, IPV4/IPV6 dual-stack management IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. Port Aggregation Max 18 aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol MLD Snooping v1/v2, Multicast VLAN | | | supports up to 128 | |
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| IPV4/IPV6 dual-stack management IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. Port Aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol MLD Snooping v1/v2, Multicast VLAN | | | route supports up to 128 entries | |
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| OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different vLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. LACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol MLD Snooping v1/v2, Multicast VLAN | | | management | |
| entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. LACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | | | IPV4 dynamic routing, RIPv1/v2, | |
| IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. Port Aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | | | OSPFv2, BGP4+, 4000 routing | |
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| 1000 routing entries Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. LACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol MLD Snooping v1/v2, Multicast VLAN | | | IPV6 dynamic routing OSPFv3, | |
| Layer 3 routing and forwarding, support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. LACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | | | BGP+, RIPng, IPV6 management, | |
| support communication between different network segments and different VLANs Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. LACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | | | 1000 routing entries | |
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| Vican | | | support communication between | |
| VLAN VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. Port Aggregation HACP, Static aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol MLD Snooping v1/v2, Multicast VLAN Multicast | | | different network segments and | |
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| Port Aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | VLAN | VLAN based on MAC, VLAN based on the protocol | | |
| Port Aggregation Max 18 aggregation groups and 8 ports per group. Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | | 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid. | | |
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| Industrial Ring G.8032 (ERPS), Recovery time less than 20ms Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN | Fort Aggregation | Max 18 aggregation groups and 8 ports per group. | | |
| Network Protocol 250 Ring at most, Max 250 devices per ring. MLD Snooping v1/v2, Multicast VLAN Multicast | Spanning Tree | STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) | | |
| MLD Snooping v1/v2, Multicast VLAN Multicast | Industrial Ring | G.8032 (ERPS), Recovery time less than 20ms | | |
| Multicast | Network Protocol | 250 Ring at most, Max 250 devices p | per ring. | |
| | | MLD Snooping v1/v2, Multicast VLAN | | |
| | Multicast | IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out | | |
| Port Mirroring Bidirectional data mirroring based on port | Port Mirroring | Bidirectional data mirroring based on port | | |
| QoS Flow-based Rate Limiting | QoS | Flow-based Rate Limiting | | |

| | Flow-based Packet Filtering |
|------------|---|
| | 8*Output queues of each port |
| | 802.1p/DSCP priority mapping |
| | Diff-Serv QoS,Priority Mark/Remark |
| | Queue Scheduling Algorithm (SP, WRR, SP+WRR) |
| | Port-based Issuing ACL,ACL based on port and VLAN |
| ACI | L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL |
| ACL | based on MAC, Destination MAC address, IP Source, Destination IP, IP |
| | Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. |
| | IP-MAC-VLAN-Port binding |
| | ARP inspection,Anti-DoS attack |
| | AAA & RADIUS,MAC learning limit |
| Carreite | Mac black holes,IP source protection |
| Security | IEEE802.1X & MAC address authentication |
| | Broadcast storm control,Backup for host datum |
| | SSH 2.0,SSL,Port isolation,ARP message speed limit |
| | User hierarchical management and password protection |
| DHCP | DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay |
| | CPU instant utilization status view |
| | Console/AUX Modem/Telnet/SSH2.0 CLI |
| | One-key recovery, Cable Diagnose, LLDP |
| Managament | Web Management (HTTPS), NTP, System work log, Ping Test |
| Management | ONV NMS- Smart Network Management System Platform |
| | (LLDP+SNMP) |
| | Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP |
| | V1/V2C/V3 |
| | Category 5 Ethernet network cable |
| System | Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 |
| | or higher, Microsoft Internet Explorer10 or later; |
| | |

TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

DIMENSION



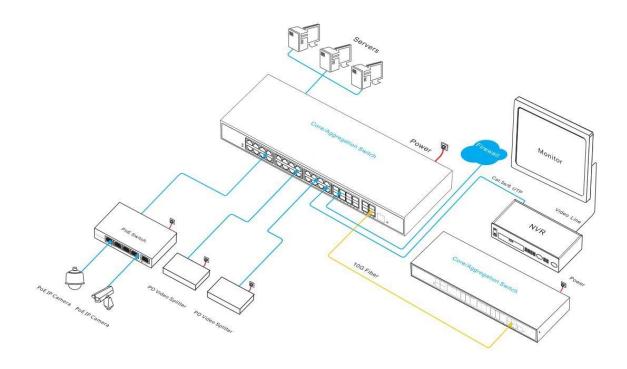
A. Working indicator B. 24*10/100/1000M RJ45 ports

C. 8*100/1000M SFP ports D. 4*1/10G SFP+ ports

E. Console port F. Reset switch

G. Power input port AC100-240V,50/60Hz

APPLICATION



ORDERING INFORMATION

| Model | Description | Built-in Power Supply |
|------------|--|--------------------------|
| ONV36036FM | L2+ managed Ethernet aggregation /core fiber switch with 24*10/100/1000M RJ45 ports and 8*100/1000M SFP ports and 4*1/10G SFP+ fiber slot ports. Support 1U/19 inch rack installation. | 60W |
| ONV38036FM | L3 managed Ethernet aggregation /core fiber switch with 24*10/100/1000M RJ45 ports and 8*100/1000M SFP ports and 4*1/10G SFP+ fiber slot ports. Support 1U/19 inch rack installation. | 60W |

Note: The SFP optical module is not included by default and needs to be purchased separately.

PACKING LIST

| | CONTENT | QTY | UNIT |
|--------------|---|-----|------|
| PACKING LIST | 36-port 10G uplink L3 managed Ethernet fiber switch | 1 | SET |
| | AC Power Cable | 1 | PC |
| | RJ45-DB9 Line | 1 | PC |
| | Mounting Kits(Hanging Ear) | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | PC |

OPTICAL MODULE INFORMATION

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

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|----------------|---|
| | |

| | | SFP optical module, 1.25G, single-mode single fiber | |
|---------|-----------|---|----|
| | 2613-R-SC | TX1550nm/RX1310nm, transmission distance: 20km, SC | PC |
| | | interface, support DDM function, support hot plug and pull. | |
| Power | 2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 | PC |
| Module | 2033 | port. | PC |
| 10G | | SFP+ optical module,10G Multi-mode dual fiber 850nm, | |
| Optical | 6630 | transmission distance: 300m, LC interface, support DDM | PC |
| Module | | function, support hot plug and pull. | |
| | | SFP+ optical module,10G Single-mode dual fiber 1310nm, | |
| | 7832 | transmission distance: 20km, LC interface, support DDM | PC |
| | | function, support hot plug and pull. | |
| | | SFP+ optical module,10G Single-mode single fiber | |
| | 7832-33 | TX1330nm/RX1270nm , transmission distance: 20km, LC | PC |
| | | interface, support DDM function, support hot plug and pull. | |
| | | SFP+ optical module,10G Single-mode single fiber | |
| | 7832-27 | TX1270nm/RX13300nm , transmission distance: 20km, LC | PC |
| | | interface, support DDM function, support hot plug and pull. | |

RELATED PRODUCT

| Model | Description |
|------------|---|
| | L3 managed Ethernet aggregation fiber switch with 12*10/100/1000M RJ45 |
| ONV38168FM | ports and 4*1/10G SFP+ fiber ports. Built-in 30W power supply. Support |
| | 1U/19 inch rack installation. |
| | L3 managed Ethernet aggregation /core fiber switch with 24*10/100/1000M |
| ONV38028FM | RJ45 ports and 4*1/10G SFP+ fiber ports. Built-in 60W power supply. |
| | Support 1U/19 inch rack installation. |

| | L3 managed Ethernet aggregation fiber switch with 8*10/100/1000M RJ45 |
|------------|--|
| ONV38368FM | ports and 24*100/1000M SFP fiber ports and 4*1/10G SFP+ fiber ports. |
| | Built-in 60W power supply. Support 1U/19 inch rack installation. |
| | L3 managed Ethernet aggregation fiber switch with 12*10/100/1000M RJ45 |
| ONV38448FM | ports and 28*100/1000M SFP fiber ports and 4*1/10G SFP+ fiber ports. |
| | Built-in 60W power supply. Support 1U/19 inch rack installation. |
| | L3 managed Ethernet aggregation fiber switch with 48*10/100/1000M RJ45 |
| ONV38048FM | ports and 4*1/10G SFP+ fiber ports. Built-in 60W power supply. Support |
| | 1U/19 inch rack installation. |

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