

Overview



Models

HP V2124 Switch

J4868A

Key features

- Unmanaged plug-and-play operation
- 24 10/100 ports
- One transceiver slot for 100Base-FX connectivity
- Rack mountable with included hardware
- Industry-leading warranty

Product overview

The HP V2124 Switch is an unmanaged 24-port switch with 10/100 auto-sensing per port and one open transceiver slot for a 100Base-FX uplink. The HP V2124 Switch offers Auto-MDIX on all 10/100 ports.

Features and Benefits

Connectivity

- **24 auto-sensing 10/100 ports:** provide high-performance switching
- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 ports
- **Full scalability:** optional 100Base-FX fiber-optic (full-duplex bandwidth) transceiver enables low-cost uplink connectivity into a wiring closet up to 2 km away

Performance

- **Low-cost/High-performance:** combines affordability, scalability, and ease of use

Ease of use

- **Unmanaged:** provides plug-and-play simplicity
- **Use on desktop or rack-mounted:** quiet operation enables flexible use
- **1U form factor:** the industry's most frequently requested size

Warranty and support

- **Lifetime warranty:** for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)*
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available

* Hardware warranty replacement for as long as you own the product, with next business day advance replacement (available in most countries) with a five-year hardware warranty replacement for the disk drive included with HP AllianceONE Services zl Module,



Overview

HP Threat Management Services zl Module, HP PCM+ Agent with AllianceONE Services zl Module, and HP E-MSM765 zl Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at: www.hp.com/networking/warranty.



Technical Specifications

HP V2124 Switch (J4868A)

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| Ports | 24 autosensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full | |
| | 1 open transceiver slot | |
| Physical characteristics | Dimensions | 8.0(d) x 17.4(w) x 1.8(h) in. (20.32 x 44.2 x 4.57 cm) (1U height) |
| | Weight | 8.25 lb. (3.74 kg), Fully loaded |
| Memory and processor | 768 KB | |
| Mounting | Mounts in a standard 19 in. rack (hardware included) | |
| Performance | Latency | <8.5 μ s (LIFO) |
| | Switch capacity | 2.6 Gbps |
| | MAC address table size | 4,096 entries |
| Environment | Operating temperature | 32°F to 131°F (0°C to 55°C) |
| | Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 90% @ 149°F (65°C), noncondensing |
| | Shock and vibration | HP759, HP760 (similar to EN 60068 IEC 68) |
| Electrical characteristics | Acoustic | Power: 42 dB; DIN 27779 per ISO 7779 |
| | Maximum heat dissipation | 341 BTU/hr (360 kJ/hr) |
| | Voltage | 100-240 VAC |
| | Current | 1.0 A |
| | Maximum power rating | 100 W |
| | Frequency | 50 / 60 Hz |
| | Notes | Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| Safety | cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition | |
| Emissions | FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A | |
| Immunity | Generic | EN 55024, CISPR 24 |
| | EN | EN 55024, CISPR 24 |
| | ESD | IEC 61000-4-2; 4 kV CD, 8 kV AD |
| | Radiated | IEC 61000-4-3; 3 V/m |
| | EFT/Burst | IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line) |
| | Surge | IEC 61000-4-5; 1 kV/2 kV AC |
| | Conducted | IEC 61000-4-6; 3 V |
| | Power frequency magnetic field | IEC 61000-4-8; 1 A/m, 50 or 60 Hz |
| | Voltage dips and interruptions | IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods |



Technical Specifications

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| | Harmonics | EN 61000-3-2, IEC 61000-3-2 |
| | Flicker | EN 61000-3-3, IEC 61000-3-3 |
| Services | 3-year, 4-hour onsite, 13x5 coverage for hardware (H5484E) | |
| | 3-year, 4-hour onsite, 24x7 coverage for hardware (U6300E) | |
| | Installation with minimum configuration, system-based pricing (U4826E) | |
| | Installation with HP-provided configuration, system-based pricing (U4830E) | |
| | 4-year, 4-hour onsite, 13x5 coverage for hardware (UR840E) | |
| | 4-year, 4-hour onsite, 24x7 coverage for hardware (UR841E) | |
| | 5-year, 4-hour onsite, 13x5 coverage for hardware (UR843E) | |
| | 5-year, 4-hour onsite, 24x7 coverage for hardware (UR844E) | |
| | 3 Yr 6 hr Call-to-Repair Onsite (UW359E) | |
| | 4 Yr 6 hr Call-to-Repair Onsite (UW360E) | |
| | 5 Yr 6 hr Call-to-Repair Onsite (UW361E) | |
| Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. | | |
| Standards and protocols | General Protocols | IEEE 802.3x Flow Control |

Accessories

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| HP V2124 Switch accessories | Transceivers | |
| | HP X119 100M PC SC FX Transceiver | J4853A |
| | Cables | |
| | NEW HP 0.5 m Multimode OM3 LC/LC Optical Cable | AJ833A |
| | NEW HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable | BK837A |
| | NEW HP 1 m PremierFlex OM3+ LC/LC Optical Cable | BK838A |
| | NEW HP 2 m PremierFlex OM3+ LC/LC Optical Cable | BK839A |
| | NEW HP 5 m PremierFlex OM3+ LC/LC Optical Cable | BK840A |
| | NEW HP 15 m PremierFlex OM3+ LC/LC Optical Cable | BK841A |
| | NEW HP 30 m PremierFlex OM3+ LC/LC Optical Cable | BK842A |
| | NEW HP 50 m PremierFlex OM3+ LC/LC Optical Cable | BK843A |

Accessory Product Details

NOTE: Details are not available for all accessories. The following specifications were available at the time of publication.

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| HP X119 100M PC SC FX Transceiver (J4853A) | Physical characteristics | 1 SC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full Dimensions: 3.8(d) x 2.05(w) x 0.95(h) in. (9.65 x 5.21 x 2.41 cm) Weight: 0.09 lb. (0.04 kg) |
| | Cabling | Type: <ul style="list-style-type: none"> 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively |
| | Notes | Maximum distance: <ul style="list-style-type: none"> 2 km (full duplex) or 412 m (half duplex) |
| | Services | Full duplex only, when installed in unmanaged switches and HP E2500 Switch Series Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. |

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| HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A) | Cabling | Cable type: 50/125 μ m (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m |
| | Notes | Maximum distance: 10Gbps Transfer Rate (Ethernet): 300m Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 μ m fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end. <ul style="list-style-type: none"> Dimensions: Core diameter: 50 \pm 3.0μm Cladding diameter: 125 \pm 2.0μm Coating diameter: 245 \pm 10μm Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125μm multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ |



Accessory Product Details

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| | | <p>1310 nm @ 23°C as tested in accordance with EIA 455-46.</p> <ul style="list-style-type: none"> Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg |
| | Services | <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p> |
| HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A) | Notes | <p>Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.</p> <ul style="list-style-type: none"> Core diameter: 50um \pm 3um; Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade - Low Smoke Zero Halogen (LSZH) thermoplastic. Boot Color: White Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46 |
| | Services | <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p> |
| HP 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A) | Notes | <p>Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.</p> <ul style="list-style-type: none"> Core Diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 |
| | Services | <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p> |



Accessory Product Details

HP 2 m PremierFlex
OM3+ LC/LC Optical
Cable (BK839A)

Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 5 m PremierFlex
OM3+ LC/LC Optical
Cable (BK840A)

Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

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Accessory Product Details

HP 15 m PremierFlex
OM3+ LC/LC Optical
Cable (BK841A)

Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 30 m PremierFlex
OM3+ LC/LC Optical
Cable (BK842A)

Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.



Accessory Product Details

HP 50 m PremierFlex
OM3+ LC/LC Optical
Cable (BK843A)

Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

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