

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,



QuickSpecs

HP V2124 Switch

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.



QuickSpecs

HP V2124 Switch

Technical Specifications

HP V2124 Switch (J4868A)

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) Acoustic Power: 42 dB; DIN 27779 per ISO 7779
Electrical characteristics	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



QuickSpecs

HP V2124 Switch

Technical Specifications

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



QuickSpecs

HP V2124 Switch

Accessories

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



QuickSpecs

HP V2124 Switch

Accessory Product Details

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

HP X119 100M PC SC FX Ports 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)
HP X119 100M PC SC FX Transceiver: An HP format 100-megabit transceiver with SC connectors using FX technology.	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 Maximum distance: <ul style="list-style-type: none">2 km (full duplex) or 412 m (half duplex)
	Notes	Full duplex only, when installed in unmanaged switches and HP E2500 Switch Series
	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 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)	Cabling	Cable type: 50/125 μm (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 μm 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: $50 \pm 3.0\mu\text{m}$ Cladding diameter: $125 \pm 2.0\mu\text{m}$ Coating diameter: $245 \pm 10\mu\text{m}$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 598Boot Color: WhiteInsertion 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 @



QuickSpecs

HP V2124 Switch

Accessory Product Details

		<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	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 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 ± 3um; Cladding diameter: 125um ± 2um; Coating diameter: 245 ± 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	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 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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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.



QuickSpecs

HP V2124 Switch

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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QuickSpecs

HP V2124 Switch

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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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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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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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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QuickSpecs

HP V2124 Switch

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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