

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)

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
	Operating temperature	32°F to 131°F (0°C to 55°C)
Environment	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



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

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



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 Transceiver (J4853A)	Ports	1 SC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full
	Physical characteristics	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: 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: 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 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 μm fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end. - 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

		1310 nm @ 23°C as tested in accordance with EIA 455-46. 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	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 @ 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	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 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

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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

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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 $\pm$ 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 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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