

Overview

HPE Synergy Interconnect Link Cables

Connection between HPE Virtual Connect SE 100Gb F32 Module for Synergy and HPE Synergy 50Gb Interconnect Link Module

Platform Information

Models

HPE Synergy 300Gb Interconnect Link 2.1m Direct Attach Copper Cable 876680-B21

The following 3 SKUs all comply to the Low Smoke Zero Halogen (LSZH) standard and refers to the behavior of chemical compounds when combusted - specifically the quantity of smoke generated and the toxicity of the emissions.

HPE Synergy 300Gb Interconnect Link 3m Active Optical Cable 876689-B21

HPE Synergy 300Gb Interconnect Link 5m Active Optical Cable 876692-B21

HPE Synergy 300Gb Interconnect Link 15m Active Optical Cable 876698-B21

The following 3 SKUs are all Plenum-Rated referring to its special insulation that has low smoke and low flame characteristics.

HPE Synergy 300Gb Interconnect Link 3m Plenum Rated Active Optical Cable P64635-B21

HPE Synergy 300Gb Interconnect Link 5m Plenum Rated Active Optical Cable P64638-B21

HPE Synergy 300Gb Interconnect Link 15m Plenum Rated Active Optical Cable P64641-B21

Notes:

- Mixing LSZH and Plenum-Rated cables in the same Logical Enclosure (LE) is not supported.
- Since the Plenum-Rated cables are newer, they require a minimum version of OneView and a minimum firmware version on the modules that they are connecting – VC 100Gb F32 Switch module and the 50G ICM Satellite module.
 - OneView version must be OV 9.0 or higher
 - VC 100Gb F32 Switch must have firmware of 2.7.0 or higher
 - 50Gb ICM Satellite that has Spare Part Number 879437-001 or P02747-001 must have firmware of 1.2.1.0 or higher
 - 50Gb ICM Satellite that has Spare Part Number P57815-001 or P57838-001 must have firmware of 2.0.2.0 or higher
 - The firmware versions for the VC 100Gb F32 Switch and the 50Gb ICM Satellite modules are part of the SSP SY2024.07.01

Warning: If non-supported firmware is used with Plenum cables, creation of the Logical Enclosure will fail. Customers must upgrade all firmware on connecting modules before installing the Plenum-Rated cables.

Ensure that OneView and the modules that these cables are connecting have supported firmware before starting any replacement or growth operations with Plenum-Rated cables.

Check the HPE OneView for Synergy version number. If you are not running HPE OneView for Synergy version 9.0 or later, update the software. See the [HPE OneView for Synergy User Guide Document - HPE OneView for HPE Synergy Firmware and Driver Update Guide | HPE Support](#) for details on updating the software.

Update the firmware on the connecting modules. See the [HPE OneView for Synergy User Guide Document - HPE OneView for HPE Synergy Firmware and Driver Update Guide | HPE Support](#) for details on updating the firmware.



Standard Features

At a Glance Features

- EU RoHS-6 and China RoHS compliant
 - Supports 25Gb/s per lane
 - Twelve-channel full-duplex active optical cable
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Service and Support

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- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

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Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

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HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

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<https://www.hpe.com/us/en/contact-hpe.html>

For more information

<http://www.hpe.com/services>



Technical Specifications

HPE Synergy 300G Interconnect Link 2.1m Direct Attach Copper Cable (876680- B21)	Connectivity	Length	6.89 ft. (2.1 m)
	Physical characteristics	Weight	1.46 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 80%, noncondensing
		Non-operating/Storage temperature	-4°F to 185°F (-20°C to 85°C)
		Altitude	0-10,000 ft
	Electrical characteristics	Power consumption	1 watts maximum
	NOTES	Electrical Properties • Cable Characteristic Impedance: 90~115ohm • Crosstalk between pairs: 32dB max • Time delay: 1.6 nsec/ft. Total Latency 11nsec • BER: 10⁻¹²max Physical Properties • Minimum Cable Bend Radius: 35.6 mm • Minimum Cable Bend Space: 86.4 mm	

HPE Synergy 300G Interconnect Link 3m Active Optical Cable (876689-B21)	Connectivity	Length	9.8ft. (3 m)
	Physical characteristics	Weight	0.5 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Altitude	0-10,000ft
	Electrical characteristics	Power consumption	7.2 watts maximum
	NOTES	Electrical Properties • Time delay: 13.1 nsec/ft • BER: 10⁻¹²max Physical Properties • Cable Diameter: 3.8 mm • Minimum Cable Bend Radius: 38 mm	



Technical Specifications

HPE Synergy 300G Interconnect Link 5m Active Optical Cable (876692-B21)	Connectivity	Length	16.4 ft. (5 m)
	Physical characteristics	Weight	0.5 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Altitude	0-10,000ft
	Electrical characteristics	Power consumption	7.2 watts maximum
	NOTES	Electrical Properties - Time delay: 21.5 nsec/ft - BER: 10^{-12}max Physical Properties - Cable Diameter: 3.8 mm - Minimum Cable Bend Radius: 38 mm	

HPE Synergy 300G Interconnect Link 15m Active Optical Cable (876698-B21)	Connectivity	Length	49.2 ft. (15 m)
	Physical characteristics	Weight	0.5 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Altitude	0-10,000ft
	Electrical characteristics	Power consumption	7.2 watts maximum
	NOTES	Electrical Properties - Time delay: 63.5 nsec/ft - BER: 10^{-12}max Physical Properties - Cable Diameter: 3.8 mm - Minimum Cable Bend Radius: 38 mm	

HPE Synergy 300G Interconnect Link 3m Plenum Rated Active Optical Cable (P64635-B21)	Connectivity	Length	9.8ft. (3 m)
	Physical characteristics	Weight	0.5 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Altitude	0-10,000ft
	Electrical characteristics	Power consumption	7.2 watts maximum
	NOTES	Electrical Properties - Time delay: 13.1 nsec/ft - BER: 10^{-12}max Physical Properties - Cable Diameter: 3.8 mm - Minimum Cable Bend Radius: 38 mm	



Technical Specifications

HPE Synergy 300G Interconnect Link 5m Plenum Rated Active Optical Cable (P64638-B21)	Connectivity	Length	16.4 ft. (5 m)
	Physical characteristics	Weight	0.5 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Altitude	0-10,000ft
	Electrical characteristics	Power consumption	7.2 watts maximum
	NOTES	Electrical Properties - Time delay: 21.5 nsec/ft - BER: 10⁻¹²max Physical Properties - Cable Diameter: 3.8 mm - Minimum Cable Bend Radius: 38 mm	

HPE Synergy 300G Interconnect Link 15m Plenum Rated Active Optical Cable (P64641-B21)	Connectivity	Length	49.2 ft. (15 m)
	Physical characteristics	Weight	0.5 lb.
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Altitude	0-10,000ft
	Electrical characteristics	Power consumption	7.2 watts maximum
	NOTES	Electrical Properties - Time delay: 63.5 nsec/ft - BER: 10⁻¹²max Physical Properties - Cable Diameter: 3.8 mm - Minimum Cable Bend Radius: 38 mm	

Environment friendly Products and Approach - End-of life Management and Recycling

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Summary of Changes

Date	Version History	Action	Description of Change
05-Aug-2024	Version 8	Updated	Platform Information section was updated. Removed OBS SKUs and added Plenum rated SKUs
04-Dec-2023	Version 7	Changed	Service and Support Section was updated
15-Nov-2021	Version 6	Updated	Service and Support Section was updated
18-Jan-2021	Version 5	Updated	Overview Section was updated
03-Sep-2019	Version 4	Updated	Models Section was updated
05-Feb-2018	Version 3	Changed	Technical Specifications section was updated.
31-Mar-2016	Version 2	Changed	Overview and Technical Specifications sections were updated.
		Added	SKUs added in Overview section: 804095-B21, 804098-B21, 804155-B21, 804155-B21, 804101-B21, 804104-B21, 804107-B21, 804110-B21
1-Dec-2015	Version 1	Created	New QuickSpecs



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