HPE Product Portfolio - Marvell QLogic Fibre Channel HBAs

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Product Category	HPE Model	HPE P/N	QLogic Model	Ports	Port Speed	Form Factor	FC-NVMe, FC-NVMe v2	HPE Server Compatibility
64Gb FC HBAs 	HPE SN1700Q 64Gb 1-port PCIe Fibre Channel HBA	R7N86A	QLE2870	Single	64Gb	PCIe 4.0	Yes	HPE ProLiant Gen11, HPE Alletra 4100, HPE Apollo 4200 Gen10 Plus
	HPE SN1700Q 64Gb 2-port PCIe Fibre Channel HBA	R7N87A	QLE2872	Dual				
Enhanced 32Gb FC HBAs 	HPE SN1610Q 32Gb 1-port PCIe Fibre Channel HBA	R2E08A	QLE2770	Single	32Gb	PCIe 4.0	Yes	HPE ProLiant Gen11, HPE ProLiant Gen10 & Gen10 Plus, HPE Alletra 4100, HPE Apollo Gen10 & Gen10 Plus, HPE Superdome Flex, HPE SimpliVity
	HPE SN1610Q 32Gb 2-port PCIe Fibre Channel HBA	R2E09A	QLE2772	Dual				
Enhanced 16Gb FC HBAs 	HPE SN1100Q 16Gb 1-port PCIe Fibre Channel HBA	P9D93A	QLE2690	Single	16Gb	PCIe 3.0	Yes	HPEProLiant Gen10, Gen10 Plus, HPE Alletra 4100, HPE Apollo Gen10, Gen10 Plus, HPE Superdome Flex, HPE SimpliVity
	HPE SN1100Q 16Gb 2-port PCIe Fibre Channel HBA	P9D94A	QLE2692	Dual				
HPE Synergy Adapters 	HPE Synergy 5830C 32Gb Fibre Channel Adapter	777456-B21	QMH2742	Dual	32Gb	PCIe 3.0 Type C Mezz	Yes	HPE Synergy Gen10, Gen10 Plus, Gen11

All PCIe and Synergy 16/32/64Gb FC adapters listed above support HPE Smart SAN value-add integration features with HPE B-series and C-Series 16/32/64Gb FC switches and/or directors. These features simplify storage area network (SAN) deployment and orchestration, reduce the time required to diagnose issues and improve overall SAN resiliency and provide for quality of service. Specific features include:

FC-NVMe, FC-NVMe v2, D-Port Diagnostics, Fabric Assigned Port WWN (FA-WWN), FDMI,
Read Diagnostic Parameters (RDP), Link Cable Beaconing (LCB), Forward Error Correction (FEC), Buffer to Buffer Credits (BB_CR),
Virtual Machine ID (VM-ID), Universal SAN Congestion Mitigation (USCM), Virtual Lane Technology[1]

All HPE-branded QLogic Fibre Channel adapters are designed with dual-port isolated ASICs. This ensures internal resources supporting traffic on each physical port are completely isolated from the other physical ports on the adapter, and delivers predictable per-port performance. This design also increases overall reliability and resiliency of the SAN connections.
All PCIe and Synergy 16/32/64Gb FC adapters listed above support concurrent FCP (SCSI) and FC-NVMe communications. They also support T10 Protection informaition (T10-PI) checksum when connected to HPE Alletra, Primera and 3PAR 16/32/64Gb FC arrays. This improves data integrity by ensuring data is validated end to end in the Fibre Channel SAN.

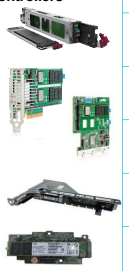
Notes:
1. Applies to SN1700Q HBAs only

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HPE Product Portfolio - Marvell ProLiant Storage Controllers and HPE Synergy Adapters

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Product Category	HPE Model	HPE P/N	Storage Capacity	Form Factor	Operating System Support	HPE Server Compatibility
NVMe Boot Controllers 	HPE NS204i-u Gen 11 Hot Plug Boot Device	P48183-B21	480GB	PCIe 3.0	Windows Server 2019, 2022, RHEL 8, SLES15, Vmware ESXi 7 U3, 8.x	ProLiant Gen11
	HPE NS204i-d Gen11 Boot Controller (Synergy)	P39568-B21				Synergy Gen11
	HPE NS204i-p OS Boot Device	P12965-B21			Windows Server 2016, 2019, 2022 RHEL 7.6 and later, SLES12 SP4, SLES15 VMware ESXi 6.7, 7.x, 8.x	ProLiant Gen10, Gen10 Plus HPE Apollo Gen10
	HPE NS204i-d Gen10 Plus Boot Controller (Synergy)	P21410-B21				HPE Synergy Gen10 Plus
	HPE DL36X Gen10 Plus x16/x8 M.2 NS204i-r Riser	P26463-B21				HPE DL360/365 Gen10 Plus
	HPE NS204i-t Gen10 Plus NVMe Boot Controller	P20292-B21				HPE Apollo 2000/6500 Gen10 Plus, Cray XD665 System

Product Category	HPE Model	HPE P/N	Marvell Model	Ports	Port Speed	Form Factor	Key Features
HPE Synergy Adapters 	HPE Synergy 6820C 25/50Gb Converged Network Adapter	P02054-B21	QL45000 Series	Dual	25/50Gb	PCIe 3.0 Type C Mezz	Newtworking: TCP/IP L2 Storage Protocols: FCoE, iSCSI NVMe-oF Support: NMVe/TCP*, NMVe/RoCE RDMA Support: RoCE, RoCEv2, iWARP
	HPE Synergy 4820C 10/20/25Gb Converged Network Adapter	876449-B21			10/20/25Gb		
	HPE Synergy 5830C 32Gb Fibre Channel Adapter	777456-B21	QMH2742	Dual	32Gb	PCIe 3.0 Type C Mezz	Storage Protocols: FC-SCSI, FC-NVMe Unified FC-SCSI/FC-NVMe driver Port Isolation Architecture SAN Congestion Mitigation - FPIN StorFusion™ diagnostic and orchestration feature set

* NVMe/TCP support requires software initiators

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Marvell first revolutionized the digital storage industry by moving information at speeds never thought possible. Today, that same breakthrough innovation remains at the heart of the company's storage, networking and connectivity solutions. With leading intellectual property and deep system-level knowledge, Marvellsemiconductor solutions continue to transform the enterprise, cloud, automotive, industrial, and consumer markets. For more information, visit www.marvell.com.

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