

Broadcom Ethernet NICs

PCIe NIC Ethernet Adapters

Specification Sheet

Key Features

- PCIe Ethernet NIC
- Line-rate throughput from 1 Gb/s to 400 Gb/s
- 1-port, 2-port, and 4-port support
- DAC, copper, and fiber connectivity
- PCIe 3.0/4.0 and 5.0 host interface
- 50/100G PAM-4 and 10/25G NRZ SerDes
- TruFlow™-configurable packet processor for virtual switch acceleration
- Broadcom security technology provides Silicon Root of Trust, secure boot and SPDM attestation
- On-chip tunneling protocol processing for Geneve, VXLAN, and NVGRE
- Hardware-based low-latency RoCE v2
- SR-IOV up to 1K VFs
- GPUdirect acceleration

Overview

Broadcom® offers a complete PCIe NIC 3.0 Ethernet portfolio supporting the full range of speeds and feeds, from 1G to 400G in the standard half-height, half-length form factor. This portfolio leverages Broadcom's comprehensive family of low-power Ethernet controller ASICs.

Broadcom's Ethernet network controller delivers best-in-class performance and hardware acceleration and offload capabilities that result in higher throughput, higher CPU efficiency, and lower workload latency for TCP/IP as well as RoCE traffic.

Broadcom PCIe Ethernet NIC adapters utilize market-leading 50/100G PAM-4, 10/25G NRZ, and PCIe 5.0/4.0 SerDes technology, ensuring seamless interoperability with Broadcom's market-leading Top-of-Rack switch and PCIe Express switch solutions, which also use the same SerDes technology.

Broadcom Ethernet adapters support SPDM-compliant attestation. Attestation enables data center operators to securely verify the authenticity and conformity of the hardware and software deployed in their data centers.

Broadcom Ethernet adapters, including the PCIe NIC portfolio, are supported with a full suite of drivers for all major operating system distributions and versions. The latest firmware, drivers, and tools can be downloaded from www.broadcom.com.

Portfolio and Ordering Information

Part Number	Ports	Port Speed	IO	Host I/F	Form Factor
BCH87505-F2000	F2000	2x 100GbE	QSFP56	PCIe 4.0 x8	16U
BCH87504-F400C	F150p	1x 400GbE	QSFP28	PCIe 3.0 x8	16U
BCH87504-F425G	F425G	4x 25GbE	SFP28	PCIe 4.0 x8	16U
BCH87504-F400C	F200p	2x 200GbE/100G	SFP28	PCIe 3.0 x8	16U
BCH87502-A400AC	F200p	2x 100GbE	SFP+	PCIe 3.0 x8	16U
BCH87504-F400C	F201F	2x 100GbE	RJ-45	PCIe 3.0 x8	16U
BCH87505-F2000	F2000	1x 200GbE	QSFP56	PCIe 4.0 x8	7U
BCH87506-F1400G-DP00	F1400G	1x 400GbE	QSFP10-D0	PCIe 5.0 x8	16U
BCH87505-F2000-QP00	F2000	2x 200GbE/100G	QSFP12	PCIe 5.0 x8	16U

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