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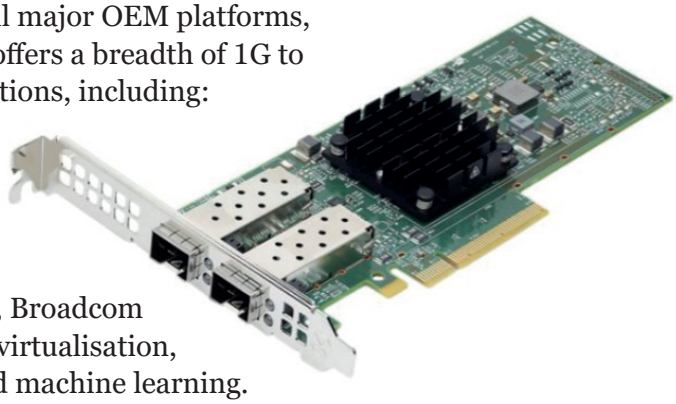
# Broadcom's extensive range of Ethernet network adapters

## An enterprise and data centre proven portfolio.

With over 20 years of Ethernet NIC leadership, validated on all major OEM platforms, the Broadcom Ethernet portfolio (available now on InTouch) offers a breadth of 1G to 400G solutions, with a wide range of product configuration options, including:



- 1-port, 2-port, 4-port
- Optical and copper connectivity
- PCIe 3.0, PCIe 4.0, PCIe 5.0
- OCP 3.0

Designed for today's cloud-scale and enterprise environments, Broadcom network adapters are the ideal solution for high-performance virtualisation, intelligent flow processing, secure data centre connectivity and machine learning.

**As a TD SYNNEX partner, you have access to Broadcom's full range of Ethernet adapters through InTouch, which is a great opportunity to give your network business a boost.**

**Learn more about our Broadcom NIC portfolio >**

### The benefits of Broadcom

- ✔ Low power adapters and controllers with outstanding thermal performance.
- ✔ Low latency and high throughput RoCEv2 deliver ground-breaking performance for machine learning, HPC and storage applications.
- ✔ Broadsafe™ embedded security provides silicon Root of Trust and attestation delivering industry's most secure Ethernet controller.
- ✔ Modern architecture delivers industry's lowest latency and lowest CPU utilisation for real-world network conditions.
- ✔ TruFlow™ engine accelerates virtual switch processing, reduces server CPU usage.
- ✔ TruManage™ addresses end-user manageability needs to allow fine-tuning of networks for maximum performance.
- ✔ On-chip tunnelling protocol processing for Geneve, VXLAN and NVGRE provides up to a 5x throughput increase.
- ✔ Acceleration engines for SDN and NFV enable leading-edge service provider solutions.

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# Get the Broadcom advantage

Broadcom offers a complete PCIe and OCP 3.0 Ethernet portfolio that supports the full range of speeds and feeds, from 1G to 400G, and leverages Broadcom's comprehensive family of low-power Ethernet controller ASICs.

| PCIe Ethernet Adapters | OCP Ethernet Adapters |
|---|---|
| **Key Features** | **Key Features** |
| ✔ PCIe Ethernet NIC | ✔ OCP NIC 3.0-compliant |
| ✔ Line-rate throughput from 1 Gb/s to 400 Gb/s | ✔ Line-rate throughput from 1 Gb/s to 400 Gb/s |
| ✔ 1-port, 2-port and 4-port support | ✔ 1-port, 2-port and 4-port adapters |
| ✔ DAC, copper and fibre connectivity | ✔ Copper and fibre connectivity |
| ✔ PCIe 3.0, 4.0 and 5.0 host interface | ✔ PCIe 3.0, 4.0 and 5.0 host interface |
| ✔ 50/100G PAM-4 and 10/25G NRZ SerDes | ✔ 50/100G PAM-4 and 10/25G NRZ SerDes |
| ✔ TruFlow™-configurable packet processor for virtual switch acceleration | ✔ TruFlow™-configurable packet processor for virtual switch acceleration |
| ✔ Broadcom security technology provides Silicon Root of Trust, secure boot and SPDM attestation | ✔ Broadcom security technology provides Silicon Root of Trust, secure boot and SPDM attestation |
| ✔ On-chip tunnelling protocol processing for Geneve, VXLAN, and NVGRE | ✔ On-chip tunnelling protocol processing for Geneve, VXLAN, and NVGRE |
| ✔ Hardware-based low-latency RoCE v2 | ✔ Hardware-based low-latency RoCE v2 |
| ✔ SR-IOV up to 1K VFs | ✔ SR-IOV up to 1K VFs |
| ✔ GPUDirect acceleration | ✔ Multi-host with ECN marking |
| | ✔ Peer Memory Direct |
| | ✔ PXE, UEFI network boot |
| | ✔ LSO/LRO/TSO/RSS |

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## Get the Broadcom advantage

The Broadcom Ethernet network controller delivers best-in-class performance, 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's Ethernet adapters utilise market-leading 50/100G PAM-4, 10/25G NRZ and PCIe 4.0/5.0 SerDes technology, ensuring seamless interoperability with their market-leading top-of-rack switch and PCIe Express switch solutions, which also use the same SerDes technology.

They also support SPDM-compliant attestation, which enables data centre operators to securely verify the authenticity and conformity of the hardware and software deployed in their data centres.

Broadcom Ethernet supports a full suite of drivers for all major operating system distributions and versions.

## Full portfolio and ordering information

### PCIe Ethernet adapters

Broadcom Ethernet Network adapters are suitable for a wide range of applications, from consumer desktops to enterprise servers. They're ideal for upgrading existing systems to higher network speeds or adding additional network ports.

| Part Number | Name | Port Speed | I/O | Host I/F | Multihost |
|---|---|---|---|---|---|
| BCM95719A1904AC | 5719-4P | 4× 1GbE | RJ-45 | PCIe NIC | No |
| BCM95720A2003AC | 5720-2P | 2× 1GbE | RJ-45 | PCIe NIC | No |
| BCM957412A4120AC | P210p | 2× 10GbE | SFP+ | PCIe 3.0 ×8 | No |
| BCM957416A4160C | P210TP | 2× 10GbE | RJ-45 | PCIe 3.0 ×8 | No |
| BCM957414A4142CC | P225p | 2× 25GbE/10GbE | SFP28 | PCIe 3.0 ×8 | No |
| BCM957504-P425G | P425G | 4× 25GbE | SFP28 | PCIe 4.0 ×16 | No |
| BCM957414A4140C | P150p | 1× 50GbE | QSFP28 | PCIe 3.0 ×8 | No |
| BCM957508-P2100G | P2100G | 2× 100GbE | QSFP56 | PCIe 4.0 ×16 | No |
| BCM957508-P1200G | P1200G | 1× 200GbE | QSFP56 | PCIe 4.0 ×16 | No |
| BCM957608-P2200GQF00 | P2200G | 2x 200GbE or 1x 400GbE | QSFP112 | PCIe 5.0 x16 | No |
| BCM957608-P1400GDF00 | P1400GD | 1x 400GbE | QSFP112-DD | PCIe 5.0 x16 | No |

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# Full portfolio and ordering information

## OCP Ethernet adapters

Open Compute Project (OCP) NIC 3.0 allows cloud providers and server OEMs to utilise compact server designs that can accommodate higher power density for high-performance NICs with advanced hardware acceleration capabilities. The form-factor also simplifies operations to lower the total cost of ownership.

| Part Number | Name | Port Speed | I/O | Host I/F | Multihost | Attestation |
|---|---|---|---|---|---|---|
| BCM95719-N1905C | N41T | 4x 1GbE | RJ-45 | PCIe 2.0 x4 | No | No |
| BCM957412-N4120C | N210P | 2x 10GbE | SFP+ | PCIe 3.0 x8 | No | No |
| BCM957416-N4160C | N210TP | 2x 10GbE BASE-T | RJ-45 | PCIe 3.0 x8 | No | No |
| BCM957414-N4140C | N225P | 2x 25GbE | SFP28 | PCIe 3.0 x8 | No | No |
| BCM957504-N425G | N425G | 4x 25GbE | SFP28 | PCIe 4.0 x16 | Yes | Yes |
| BCM957504-N1100G | N1100G | 1x 100GbE | QSFP56 | PCIe 4.0 x16 | Yes | Yes |
| BCM957504-N1100GD | N1100GD | 1x 100GbE | DSFP | PCIe 4.0 x16 | No, multiroot only | Yes |
| BCM957508-N1200G | N1200G | 1x 200GbE | QSFP56 | PCIe 4.0 x16 | Yes | Yes |
| BCM957508-N2100G | N2100G | 2x 100GbE | QSFP56 | PCIe 4.0 x16 | Yes | Yes |
| BCM957608-N2200GQP00 | N2200G | 2x 200GbE/1x 400GbE | QSFP112 | PCIe 5.0 x16 | Yes | Yes |
| BCM957608-N1400GDP00 | N1400GD | 1x 400GbE | QSFP112-DD | PCIe 5.0 x16 | Yes | Yes |


## Interested in Broadcom?

Contact your TD SYNNEX Account Manager or **buy now on InTouch**