

# Broadcom NetXtreme E-Series P2100G Dual port 100GE PCIe Ethernet Adapter

Kod producenta: BCM957508-P2100G



Architektura	100GbE
Złącze	QSFP56
Ilość portów	2
Typ złącza magistrali	PCI Express 4.0 x16
Format	Low Profile

Based on Broadcom’s scalable 10/25/50/100/200G Ethernet controller architecture, the P2100G 2x100G PCIe NIC is designed to build highly scalable, feature-rich networking solutions in servers for enterprise and cloud-scale networking and storage applications, including high-performance computing, telco, machine learning, storage disaggregation and data analytics.

The P2100G 2x100G PCIe NIC builds upon the success of the widely deployed Broadcom architecture by combining a high-bandwidth Ethernet controller with a unique set of highly optimized hardware acceleration engines to enhance network performance and improve server efficiency.

Driven by the growing need for higher server bandwidth and storage capacity to support new and emerging applications, enterprises, telcos and cloud providers are modernizing their data centers by adopting latest networking technologies, such as server virtualization and

NVMe-oF™. The resulting expansion in data volumes increases server-to-server traffic and CPU loads for networking tasks.

With its market-leading hardware acceleration technologies, the P2100G 2x100G PCIe NIC addresses these performance and service demands of mega-scale data center networks with high throughput and advanced flow processing. Features such as TruFlow™ increase VM density up to 50 percent, freeing more CPU cycles for additional virtual machines. On-chip tunneling protocol processing for Geneve, VXLAN, and NVGRE provides up to a 5X throughput increase while lowering CPU utilization up to 90 percent compared to software-only solutions. These solutions also support advanced networking technologies such as RoCE, SDN and NFV, to facilitate the management of data networks and to enable service provider solutions.

## Features

- Standards-compliant 100/50/25/10G Dual-port QSFP56 PCIe NIC with line-rate, full-duplex throughput
- NIC partitioning supporting 16 physical functions (PFs)
- TruFlow™ engine for intelligent flow processing to increase server VM density and accelerate vSwitch processing
- Industry’s most secure PCIe NIC solution supporting Broadcom’s Broad SAN and Broad SAN technology

unparalleled platform security via Silicon Root of Trust

- New end-to-end congestion avoidance and management to anticipate and eliminate congestion before it happens
- Support for advanced networking technologies including RoCE, SDN, NFV and virtualization
- TruManage™ enhances server manageability and security for data center deployments

## Applications

- Cloud and Web2.0 data center servers
- Enterprise data center servers
- Private Cloud
- Machine Learning (ML) clusters
- High-Performance Computing (HPC) clusters
- Multi-node container platforms
- NVMe storage disaggregation (NVMe-oF)
- Database servers

*Strona firmowa produktu:*

<https://www.superstorage.pl/broadcom-netxtreme-series-p2100g-dual-port-100ge-pcie-ethernet-adapter-p-5716.html>