

Broadcom BCM957414N4140C Datasheet



Broadcom BCM957414N4140C N225P Dual-Port 25/10 Gb/s Ethernet PCIe 3.0 x8 OCP 3.0 SFP Network Adapter

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The Broadcom BCM957414N4140C is a dual-port 25 Gb/s PCI Express 3.0 x8 network adapter designed to the Open Compute Project (OCP) 3.0 Design Specification in small form factor with two SFP28 network connectors. The adapter supports SFP28 optical modules and copper direct-attach cables. The network adapter uses the Broadcom BCM57414 25GbE MAC controller with an integrated dual-channel 25GbE SFI transceiver.

Features

- Dual-port pluggable media interface, which is compatible with a 25G SFP28 optical transceiver or a copper direct-attach cable.
- Fully compliant with the SFF-8402 standard.
- x8 PCI Express 3.0 compliant.
- SR-IOV with up to 128 virtual functions (VFs).
- Function-Level Reset (FLR) support.
- TruFlow™ flow processing engine.
- Virtual Network Termination-VXLAN, NVGRE, Geneve, GRE encap/decap.
- vSwitch Acceleration.
- Tunnel-aware stateless offloads.
- DCB support – PFC, ETS, QCN, DCBx.
- RDMA over Converged Ethernet (RoCE)
- Network Controller Sideband Interface (NC-SI).

- SMBus 2.0.
- MCTP over SMBus.
- PCIe-based UART and KCS.
- Jumbo frames up to 9 Kb.
- Advanced congestion avoidance.
- Multiqueue, NetQueue, and VMQ.
- IPv4 and IPv6 offloads.
- TCP, UDP, and IP checksum offloads.
- Large send offload (LSO).
- Large receive offload (LRO).
- TCP segmentation offload (TSO).
- Receive-side scaling (RSS).
- Transmit-side scaling (TSS).
- VLAN insertion/removal.
- Interrupt coalescing.
- Network boot—PXE, UEFI.
- iSCSI boot.
- Wake-on-LAN (WOL).
- MSI and MSI-X.
- Conforms to the OCP 3.0 Design Specification Version 1.00.

Applications

- Dual-port 25-Gigabit Ethernet adapter for OCP systems.

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