

Product Brief

BCM5719 and BCM5720

Quad- and Dual-Port Ethernet Adapters



Key Features

- Quad-port and dual-port 10/100/1000BASE-T full-duplex and half-duplex MACs
- Wake-on-LAN (WoL) support
- Energy-Efficient Ethernet (EEE)
- Improves reliability and interoperability—leverages Broadcom market-proven Ethernet architecture and software
- Hardware assist for IEEE 1588 and IEEE 802.1AS time synchronization implementations

Overview

Leveraging decades of field-proven Ethernet leadership, the Broadcom® BCM5719-4P and BCM5720-2P adapters remain the cornerstone of reliable, low-power server connectivity. While data speeds continue to evolve, the BCM5719-4P and BCM5720-2P provide the critical stability and high port density required for the modern enterprise control plane and management infrastructure.

Optimized for Modern Server Roles:

- **Dedicated OOB Management:** Provides the “always-on” reliability necessary for IPMI, BMC, and remote console redirection (KVM-over-IP), ensuring that administrators maintain control regardless of the primary OS state.
- **Infrastructure Isolation:** Enables physical separation of sensitive administrative traffic—such as PXE booting, system telemetry, and logging—from high-bandwidth customer data paths.
- **High-Availability Heartbeats:** Delivers the low-latency, dedicated lanes required for cluster heartbeat synchronization to ensure seamless failover in mission-critical environments.

Benefits

- **Proven Reliability:** Over a decade of field-proven stability for mission-critical management and utility networks.
- **Energy-Efficient Ethernet (EEE):** Features native support for IEEE 802.3az standards to dynamically reduce power consumption during periods of low data activity.
- **Universal Server Support:** Ensures seamless integration with both legacy and modern ARM/x86/x64 servers through flexible PCIe v1.x and v2.x interface compatibility.
- **Plug-and-Play Integration:** Benefits from broad, built-in driver support across nearly all major operating systems (Linux, Windows Server, VMware), eliminating complex deployment hurdles.

Features

- Dual- and Quad-port GbE adapter
- PCI Express Gen 2 (5 GT/s) support
- I/O virtualization supported with 17 receive queues and 16 transmit queues per port
- Link aggregation and automatic load balancing
- Wake-on-LAN (WoL) support
- MSI and MSI-X support
- IPv4 and IPv6 offloads
- TCP, UDP, and IP checksum offloads
- LargeSendOffload (LSO)
- TCP segmentation offload (TSO)
- Receive side scaling (RSS)
- Transmit side scaling (TSS)
- VLAN support with VLAN tagging
- Jumbo frame support for frames larger than 1500 Bytes
- Broad OS support

Advanced Features and Standards

- PCI Express base specification 2.0
- PCI bus power management interface (rev 1.2)
- Advanced Error Reporting (AER)
- ACPI 2.0
- SMBus 2.0
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3i 10BASE-T
- IEEE 802.1q—VLAN tagging support
- IEEE 802.3x—Flow control
- IEEE 802.3az—EEE

NIC Adapter	Form Factor	Host Interface	Network Interface	Ports	Connector Type	MPN/Ordering
BCM5719-4P	OCP	PCIe 2.0 x4	1GBASE-T	4	RJ45	BCM95719N1905C
BCM5719-4P	PCIe	PCIe 2.0 x4	1GBASE-T	4	RJ45	BCM95719A1904AC
BCM5720-2P	PCIe	PCIe 2.0 x1	1GBASE-T	2	RJ45	BCM95720A2003AC