

PRODUCT LINE Card



BROADCOM NETXTREME™ GIGABIT ETHERNET CONTROLLERS



Product	Target Application	Description	Performance Features	Management Features	Host Interface	OS Support	Software
Current Products							
<i>Note: All Broadcom controllers are optimized for both network interface card (NIC) and LAN on motherboard (LOM) applications</i>							
BCM5704/ BCM5704S	2-, 4-, and 8-way enterprise servers and blades. BCM5704S—fiber (SerDes) applications	Dual-port Gigabit Ethernet Controller	TCP segmentation offload, TCP/IP UDP, dual ultra-deep 64-KB on-chip packet buffer	IPMI pass-through, out-of-box mode WOL, PXE remote boot, ASF 1.0, PXE 2.0, ACPI 1.1, Wake on LAN	PCI-X 1.0	All major OSs*	NetXtreme™ Unified Drivers, BASP, BACS
BCM5703/ BCM5703S	1- and 2-way servers, high-end workstations and blades. BCM5703S—fiber (SerDes) applications	Single-port Gigabit Ethernet Controller	TCP segmentation offload, TCP/IP UDP checksum, ultra-deep 96-KB packet buffer	Out-of-box mode WOL, PXE remote boot, ASF 1.0	PCI-X 1.0	All major OSs*	NetXtreme Unified Drivers, BASP, BACS
BCM5705	Enterprise client desktops	Single-port Gigabit Ethernet Controller	TCP segmentation offload, TCP/IP UDP checksum	Out-of-box mode WOL, PXE remote boot, ASF 1.0	PCI 2.3	All major OSs*	NetXtreme Unified Drivers, BACS
BCM5705M	Enterprise client desktops	Single-port Gigabit Ethernet Controller	Enhanced dynamic power control, TCP segmentation offload, TCP/IP UDP checksum	Out-of-box mode WOL, PXE remote boot, ASF 1.0	PCI 2.3	All major OSs*	NetXtreme Unified Drivers, BACS
BCM5788	SMB/consumer desktops	Single-port Gigabit Ethernet Controller	TCP/IP UDP checksum	Out-of-box mode WOL, PXE remote boot	PCI 2.3	Windows 98, ME, XP, 2000, Linux 2.4	NetXtreme Unified Drivers
BCM5788M	SMB/consumer notebooks	Single-port Gigabit Ethernet Controller	Enhanced dynamic power control, TCP/IP UDP checksum	Out-of-box mode WOL, PXE remote boot	PCI 2.3	Windows 98, ME, XP, 2000, Linux 2.4	NetXtreme Unified Drivers
Products Currently Sampling							
BCM5706/ BCM5706S	2-, 4-, and 8-way enterprise servers and blades. BCM5706S—fiber (SerDes) applications	Single-port Gigabit Ethernet Converged-Network Interface Controller (C-NIC)	TCP offload engine, iSCSI controller, RDMA controller, universal management controller	Universal management port, IPMI pass-through, out-of-box mode WOL, PXE remote boot, ASF 1.0, PXE 2.0, ACPI 1.1, Wake on LAN	PCI-X 1.0	All major OSs*	NetXtreme™ II Unified Drivers
BCM5721	1- and 2-way servers, high-end workstations	Single-port Gigabit Ethernet Controller	TCP segmentation offload, TCP/IP UDP checksum; large burst read; interrupt coalescing; TCP, IP, and UDP checksum	IPMI pass-through, out-of-box mode WOL, PXE remote boot, ASF 2.0	PCI Express x1 revision 1.0a	All major OSs*	NetXtreme Unified Drivers, BASP, BACS
BCM5751	Enterprise clients, 1- and 2-way workstations	Single-port Gigabit Ethernet Controller	TCP segmentation offload, TCP/IP UDP checksum; large burst read; interrupt coalescing; TCP, IP, and UDP checksum	Integrated TPM functionality, out-of-box mode WOL, PXE remote boot, ASF 2.0	PCI Express x1 revision 1.0a	All major OSs*	NetXtreme Unified Drivers, BACS
BCM5751M	Enterprise notebooks	Single-port Gigabit Ethernet Controller	TCP segmentation offload, TCP/IP UDP checksum; large burst read; interrupt coalescing; TCP, IP, and UDP checksum; enhanced dynamic power control	Integrated TPM functionality, out-of-box mode WOL, PXE remote boot, ASF 2.0	PCI Express x1 revision 1.0a	All major OSs*	NetXtreme Unified Drivers, BACS

*See Driver Support



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*Driver Support

Microsoft® Windows® ME, Windows 98SE, Windows NT®4, Windows 2000, Windows XP (32-bit), Windows Server™ 2003 (IA32, IA64, x86-64—Beta), Linux® (IA32, IA64, and x86-64), DOS (ODI, NDIS2), OS2 NDIS2, Netware® (ODI16), NetWare (ODI32), Solaris™ x86, SCO OpenServer™, SCO™ UnixWare®, EFI (UNDI for IA32 and IA64), PXE (UNDI-16, RPL, BootP)

Broadcom Advanced Server Program (BASP)

BASP provides critical support for server-related features such as teaming, failover, and virtual local area networks (VLANs) support. Additionally, BASP provides support for these features across NICs running at different speeds as well as for NICs from multiple vendors.

The following modes are supported under BASP:

- Broadcom Smart Load Balancing (SLB)—switch-independent, fault-tolerant bidirectional teaming and load balancing
- Link aggregation (802.3ad)—static and dynamic configuration via link aggregation control protocol
- Generic link aggregation (trunking)—support for modes such as Cisco's Fast EtherChannel (FEC), and Cisco's Gigabit EtherChannel (GEC)

Broadcom Advanced Control Suite (BACS)

- Configures and manages load-balanced and failover teams
- Configures and manages VLANs
- Views traffic statistics for Broadcom and other network adapters
- Saves and restores complex load-balanced and failed-over configuration for disaster recovery
- Graphical diagnostic utility
 - Shows vital signs for adapters, network status, and connectivity
 - Performs diagnostics
 - Performs cable analysis—monitoring cable conditions, distance between nodes, cable pair breakage, data skew between pairs, pair polarity

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BROADCOM CORPORATION
16215 Alton Parkway, P.O. Box 57013
Irvine, CA 92619-7013

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Phone: 949-450-8700
Fax: 949-450-8710
E-mail: info@broadcom.com
Web: www.broadcom.com