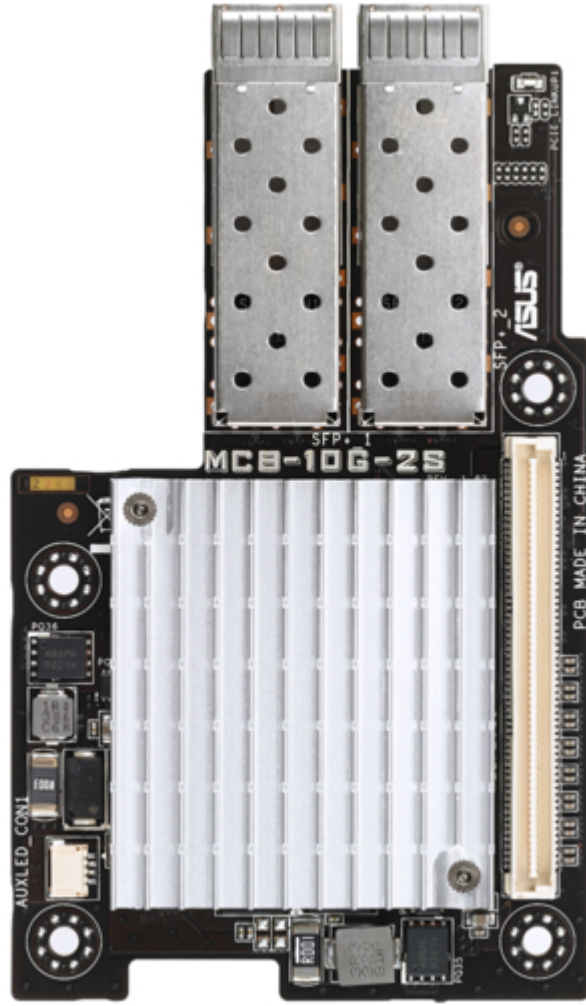




Asus MCB-10G-2S User Manual

10 gigabit/s

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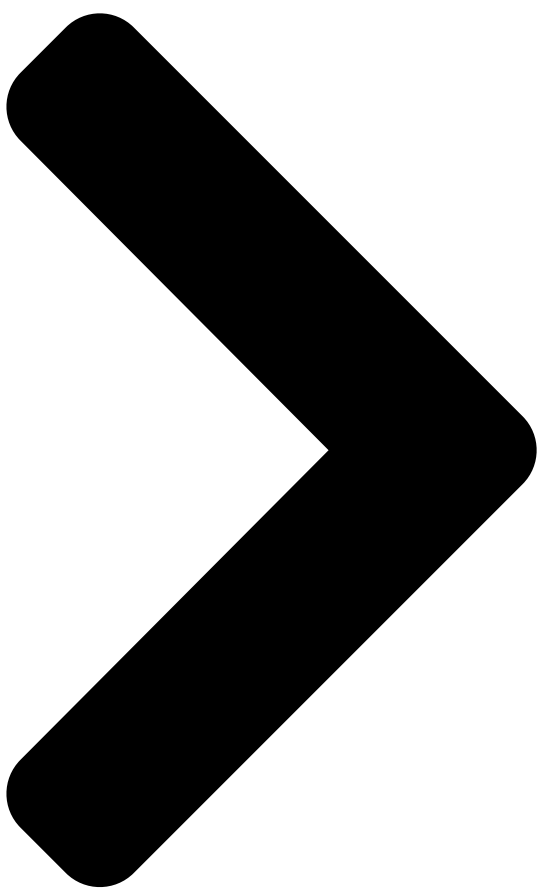
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[Network Card Asus WL-169GE User Manual](#)

Wireless local area network card for 802.11g & 802.11b wireless networks (40 pages)

Summary of Contents for Asus MCB-10G-2S

[Page 1](#) MCB-10G-2S 10 Gigabit/s Ethernet card User Guide...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

[Page 3: Table Of Contents](#)

Welcome!1-2 Package contents1-2 System requirements
1-2 Card layout1-3 Installing the MCB-10G-2S Ethernet card1-4 Chapter 2:
Boot Agent Configuration Broadcom NetXtreme Ethernet Boot Agent2-2 2.1.1 Device
Hardware Configuration Menu2-3 2.1.2...

[Page 4: About This Guide](#)

How this guide is organized This guide contains the following parts: • Chapter 1: Product introduction This chapter describes the MCB-10G-2S Ethernet card features and the new technologies it supports. • Chapter 2: Boot Agent configuration This chapter provides instructions on setting the Broadcom NetXtreme Ethernet Boot Agent.

[Page 5: Conventions Used In This Guide](#)

Conventions used in this guide To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual. DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task. CAUTION: Information to prevent damage to the components when trying to complete a task.

[Page 6: Mcb-10G-2S Specifications Summary](#)

MMF 62.5/50um up to 300m (SR) Support Cable Type Passive Twin-AX up to 5m (SFP+ Direct Attach)" PXE boot Features iSCSI boot * Please refer to ASUS website for Approved Vendor List (AVL). ** Specifications are subject to change without notice.

[Page 7: Chapter 1: Product Introduction](#)

Product introduction This chapter offers the MCB-10G-2S Ethernet card features and the new technologies it supports. Chapter 1: Product introduction...

[Page 8: Welcome](#)

1 (per carton) Support CD Packing Quantity 1 pc per carton 5 pcs per carton If any of the above items is damaged or missing, contact your retailer. System requirements Before you install the MCB-10G-2S Ethernet card, check if the system meets the following requirements: • Server or workstation motherboard with an OCP slot. ® • Supported operating systems are Windows and Linux operating systems. Please refer to ASUS website for the latest updates.

[Page 9: Card Layout](#)

Top view LC Fiber Optic Connector 1 LC Fiber Optic Connector 2 PCI Express Gen3 x8 interface SFP+ port LED indications Activity / Link LED Speed link Status Description Status Description No activity Green 10 Gb/s link Blinking Data activity Amber 1 Gb/s link SFP+2_LED2 (Speed) SFP+2_LED1 (Activity) SFP+1_LED2 (Speed) SFP+1_LED1 (Activity) ASUS MCB-10G-2S...

[Page 10: Installing The Mcb-10G-2S Ethernet Card](#)

Installing the MCB-10G-2S Ethernet card To install a MCB-10G-2S Ethernet card: Prepare the Mezannine card. Align and insert the screw holes of the MCB-10G-2S Ethernet card into stand screws then insert the ports of the MCB-10G-2S card into the port slots on the server chassis as shown. Secure the MCB-10G-2S Ethernet card with the four (4) bundled screws.

[Page 11: Chapter 2: Boot Agent Configuration](#)

Boot Agent Configuration This chapter provides instructions on setting the Broadcom NetXtreme Ethernet Boot Agent. Chapter 2: Boot Agent Configuration...

[Page 12: Broadcom Netxtreme Ethernet Boot Agent](#)

Broadcom NetXtreme Ethernet Boot Agent The Broadcom NetXtreme Ethernet Boot Agent provides hardware-based Ethernet card configurations. To start the Broadcom NetXtreme Ethernet Boot Agent and access the main screen: Turn on the system. During POST, press <Ctrl+S> when the following screen appears. Broadcom NetXtreme Ethernet Boot Agent Copyright (C) 2000-2013 Broadcom Corporation All rights reserved.

[Page 13: Device Hardware Configuration Menu](#)

Enable/Disable Option ROM [←|→][Enter][Space]:Toggle Value; [↑|↓]:Next Entry; [ESC]:Quit Menu Current Adapter:Primary, Bus=03 Device=00 Func=00, MAC=C8:60:00:22:86:B7 Option

ROM [Enabled] Configuration options: [Enabled] [Disabled] Boot Protocol [Preboot Execution Environment (PXE)] Configuration options: [Preboot Execution Environment (PXE)] [Bootstrap Protocol (BOOTP)] [iSCSI] [FCoE] [None] ASUS MCB-10G-2S...

[Page 14](#) Boot Strap Type [Auto] Configuration options: [Auto] [BBS] [Int18h] [Int19h] Hide Setup Prompt [Disabled] Configuration options: [Disabled] [Enabled] Setup Key Stroke [Ctrl-S] Configuration options: [Ctrl-S] [Ctrl-B] Banner Message Timeout [10 Seconds] Configuration options: [1 Second] - [14 Seconds] Link Speed [10Gbps] Configuration options: [10Gbps] [1Gbps] Pre-boot Wake On LAN [Enabled] Configuration options: [Enabled] [Disabled]...

[Page 15: Iscsi Boot Configuration](#)

[Disabled] The iSCSI boot host software does not attempt to boot from the iSCSI target after successfully connecting to it. The control will then return to the system BIOS so that the next boot device may be used. ASUS MCB-10G-2S...

[Page 16](#) [One Time Disabled] On the first system boot, the iSCSI boot host software does not attempt to boot from the iSCSI target. On subsequent system reboots, the iSCSI boot host software will attempt to boot from the iSCSI target. This option is useful when doing a remote install of the OS to an iSCSI target.

[Page 17](#) Secondary Device Parameters Secondary Device 00:00:00:00:00:00 Use Independent Target Portal : Disabled Use Independent Target Name : Disabled Configure Secondary Device : Invoke Select Secondary Device [Enter]:Enter New Value; [↑|↓]:Next Entry; [ESC]:Quit Menu Current Adapter:Primary, Bus=03 Device=00 Func=00, MAC=C8:60:00:22:86:B7 ASUS MCB-10G-2S...

[Page 18: Nic Partition Configuration Menu](#)

2.1.4 NIC Partition Configuration Menu Comprehensive Configuration Management v7.8.21
Copyright (C) 2000-2013 Broadcom Corporation All rights reserved. NIC Partition Configuration
Flow Control : Tx/Rx Flow Control PF#0 L2=00:10:1802:14:3C(P) Eth PF#2
L2=00:10:1802:14:40C(P) Eth PF#4 L2=00:10:1802:14:44(P) Eth PF#6 L2=00:10:1802:14:48(P)
Eth Reset Configuration to Default Configure Physical Port Flow Control
[←|→][Enter][Space]:Toggle Value;...

[Page 19: Chapter 3: Driver Installation](#)

Driver installation This chapter provides instructions for installing the Ethernet card drivers on different operating systems. Chapter 3: Driver installation...

[Page 20: Windows ® Server Os Driver Installation](#)

® Windows Server OS Driver Installation ® To update the Ethernet card driver for Windows Server OS: Restart the computer, and then log on with Administrator privileges. Insert the Support CD to the optical drive. The Support CD automatically displays the Drivers menu if Autorun is enabled in your computer.

[Page 21](#) Toggle I accept the terms in the license agreement and click Next to continue. Follow the screen instructions to complete the installation. If the Windows Security window appears during the driver installation, click Install this driver software anyway to continue. ASUS MCB-10G-2S...

[Page 22](#) Click Finish to exit the installation wizard. Restart the system. Chapter 3: Driver installation...

[Page 23: Linux Os Driver Installation](#)

For Red Hat Linux: For SuSE Linux: CD to the RPM path and build the binary driver for your kernel: cd /usr/src/{redhat,OpenLinux,turbo,packages,rpm ..} (For RHEL 6.0 and above, cd ~/rpmbuild) For Red Hat Linux: For SuSE Linux: ASUS MCB-10G-2S...

[Page 24](#) rpm -bb SPECS/netxtreme2.spec (For RPM version 4.x.x) rpmbuild -bb SPECS/netxtreme2.spec Note that the RPM path is different for different Linux distributions. The driver will be compiled for the running kernel by default. To build the driver for a kernel different than the running one, specify the kernel by defining it in KVER: rpmbuild -bb SPECS/netxtreme2.spec --define "KVER <kernel version>"...

[Page 25](#) -ivh RPMS/<arch>/netxtreme2-<version>.<arch>.rpm where <arch> is the machine architecture such as i386: For Red Hat Linux: ASUS MCB-10G-2S...

[Page 26](#) Chapter 3: Driver installation...

[Page 27](#) For SuSE Linux: ASUS MCB-10G-2S...

[Page 28](#) rpm -ivh RPMS/i386/netxtreme2-<version>.i386.rpm Note that the --force option may be needed on some Linux distributions if conflicts are reported. The drivers will be installed in the following path: 2.4.x kernels: /lib/modules/<kernel_version>/kernel/drivers/net/bnx2.o /lib/modules/<kernel_version>/kernel/drivers/net/bnx2x.o 2.6.0 kernels: /lib/modules/<kernel_version>/kernel/drivers/net/bnx2.ko /lib/modules/<kernel_version>/kernel/drivers/net/bnx2x.ko 2.6.16 and newer kernels: /lib/modules/<kernel_version>/kernel/drivers/net/bnx2.ko /lib/modules/<kernel_version>/kernel/drivers/net/bnx2x.ko /lib/modules/<kernel_version>/kernel/drivers/net/bnx2i.ko Newer RHEL and SLES distros: /lib/modules/<kernel_version>/updates/bnx2.ko /lib/modules/<kernel_version>/updates/cnic.ko /lib/modules/<kernel_version>/updates/bnx2i.ko /lib/modules/<kernel_version>/updates/bnx2fc.ko 3-10 Chapter 3: Driver installation...

[Page 29](#) To load the bnx2x driver for the BCM57710/BCM57711/BCM57711E/BCM57712 devices: insmod bnx2x.o insmod bnx2x.ko (on 2.6.x kernels) modprobe bnx2x To load the cnic driver: insmod cnic.ko modprobe cnic To load the bnx2i driver: insmod bnx2i.ko modprobe bnx2i To load the bnx2fc driver for BCM57712 device: ASUS MCB-10G-2S 3-11...

[Page 30](#) insmod bnx2fc.ko modprobe bnx2fc service bnx2fcd start Note that the inbox kernel may have an older version of bnx2, bnx2x and cnic driver. It is important for FCoE offload user to unload these inbox versions before attempting to load bnx2fc driver. You can do either of these two options: Reboot the server. If already loaded, unload inbox bnx2, bnx2x, cnic drivers, and load the newly installed version from netxtreme2-foce package using '...

[Page 31: Asus Contact Information](#)

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