



## DW-LCBC5708

### PCI Express x1 Single Port Gigabit Fiber NIC (Broadcom 5708 Based)



#### Overview

The DONGWE DW-LCBC5708 is a high performance PCI Express multifunction network adapter for either standard or low profile slots running over a fiber-optic network environment.

In addition to delivering Gigabit Ethernet networking, the DW-LCBC5708 supports TOE (TCP/IP Offload Engine) for Windows only, Internet Small Computer System Interface (iSCSI).

#### Advantages

- ◆ Use the server chipset,can support more fuctions
- ◆ Comptaible all the OS
- ◆ PCB 4 layer,1.5oz,4mil,more stable,longer using time,smaller resistance
- ◆ Two line power : 3.3v/1.2v
- ◆ DC-DC power supply,avoid the card effecting by power influence
- ◆ All use the good quality materials
- ◆ Support PXE
- ◆ Use the TI power controller,the best controller manufactures in the world,it can provide a stable working enviroment



## **Standard Features**

### **Performance Gigabit Ethernet Throughput**

Up to 1000Mbps Ethernet transfer rate delivers outstanding network performance that improves response time and removes bottlenecks across the entire network.

### **TCP/IP Offloading**

TCP/IP Offload Engine (TOE) for Windows moves the processing of data in the TCP protocol stack from the server CPU to the network card, freeing CPU cycles for other duties. The DW-LCBC5708 supports TOE when Windows TOE Chimney is installed. With TOE, network communications are improved, and server efficiency is increased.

### **Accelerated iSCSI**

Accelerated iSCSI allows the DW-LCBC5708 to multi-function as both as a network adapter and as a storage host bus adapter, thereby providing access to storage platforms and to servers over a single connection. Additionally, the DW-LCBC5708 offloads the iSCSI software to the hardware for improved performance.

### **Load Balancing**

Transmit Load Balancing (TLB) and Switch-Assisted Load Balancing (SLB) are two advanced features used to build a bigger pipe for improved networking bandwidth. These port bonding techniques enable users to use up to eight adapter ports in a ProLiant server and aggregate their throughput up to a theoretical maximum of 16 Gigabits per second full-duplex transmission.

### **Checksum and Segmentation Offloads, and Interrupt Coalescing**

When running as a standard Gigabit adapter, the DW-LCBC5708 features TCP Checksum Offloads as well as TCP Segmentation Offloads and Interrupt Coalescence. These features reduce the load on the CPU for overall improved system response. Interrupt Coalescence is a feature that groups multiple packets and issues a single interrupt to the host. This process improves host efficiency.

### **Scalability and Reliability**

Network Fault Tolerance, sometimes called "failover" or "NIC redundancy," allows for the installation of multiple server adapters or other network adapters so that the active device can be backed up by a redundant adapter to improve availability. The HP teaming utility also allows users to specify that when a failed adapter is fixed and replaced, the original adapter resumes its function as the primary network connection.



### **Management Support**

DW-LCBC5708 supports SNMP.

### **Configuration Utilities**

Enable initial diagnostics within Windows, Linux, and DOS operating systems. Configure network adapter teaming in a Windows environment. The Windows adapter teaming configuration utility includes a patented teaming GUI for Microsoft Windows 2000 and 2003 operating systems. Support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations.

### **LED Indicator**

A single bracket LED indicator shows link integrity and network activity for easy troubleshooting.

## **Technical Specifications**

### **Compliance**

- ◆ IEEE 802.3z, 802.3x, Dynamic 802.3ad, 802.3p, 802.1Q
- ◆ PCI Express ver 1.0a

### **General Specifications**

- ◆ Main chip: Broadcom 5708C
- ◆ On-board memory: 92KB
- ◆ Data rate: 1000 Mbps, Half- and full-duplex
- ◆ Data path: Four lane (x1) PCI Express compatible with x1, x4, x8, and x16 PCI Express slots
- ◆ Interrupt levels: INTA
- ◆ Connector: SC low profile
- ◆ Distance and cabling: Up to 1,804 ft/550 m with multimode fiber (50µm/125µm)  
Up to 722 ft/220 m with multimode fiber (62.5µm/125µm)

### **Power and Environmental Specifications**

- ◆ Operating Temperature: 32° to 131° F (0° to 55° C)
- ◆ Operating Humidity: 10% to 90% non-condensing
- ◆ Non-operating Temperature: -40° to 185° F (-40° to 85° C)
- ◆ Non-operating Humidity: 5% to 95% non-condensing



**Operating system support Standard Gigabit Ethernet:**

- ◆ DOS NDIS2
- ◆ Netware(ODI16)
- ◆ Windows XP 32-bit(64-bit)
- ◆ Windows Server 2003 32-bit(64-bit)
- ◆ Windows Vista 32-bit(64-bit)
- ◆ Windows 7 32-bit(64-bit)
- ◆ Windows 8 32-bit(64-bit)
- ◆ Windows 8.1 32-bit(64-bit)
- ◆ Windows Server 2008 32-bit(64-bit)
- ◆ Windows Server 2008 R2 32-bit(64-bit)
- ◆ Windows Server 2012
- ◆ Windows Server 2012 R2
- ◆ Linux
- ◆ Sun Solaris
- ◆ VMware ESX/ESXi 4.1/5.0/5.1/5.5

**Ordering Information:**

| Part Number | Description   |
|-------------|---|
| DW-LCBC5708 | PCI Express x1 Gigabit Port( Broadcom 5708 Based),SM or MM,550m-120km |

PS: The above details is just for reference,if there is any change,no inform will have.