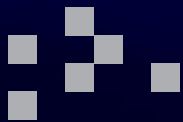
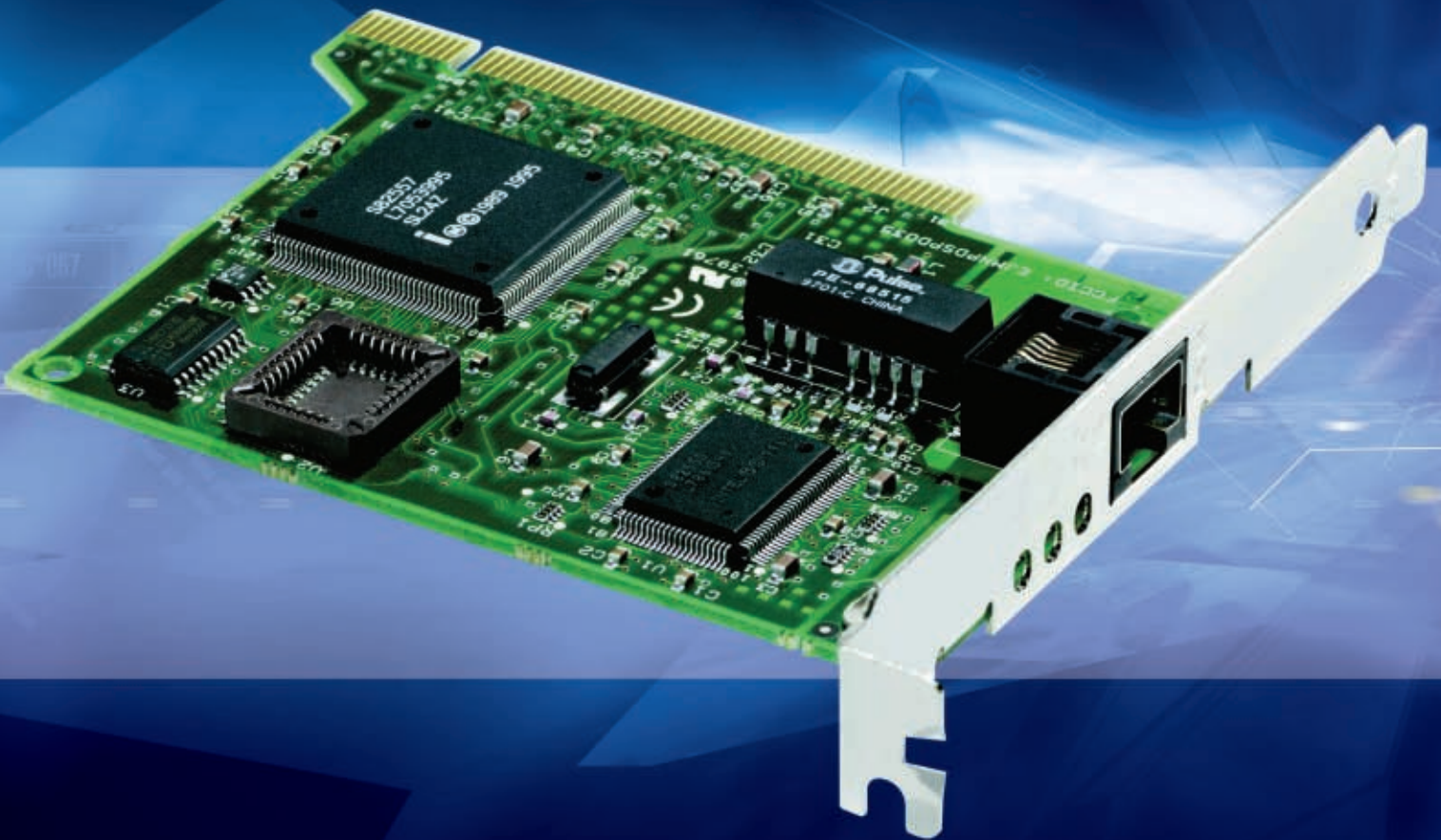


# GIGABIT ETHERNET SERVER ADAPTER

NetDR™



# GIGABIT ETHERNET SERVER ADAPTER

NetDR™



GST's NetDR™ Gigabit Ethernet Server Adapters deliver on the promise of Gigabit throughput, Gigabit performance and Gigabit reliability for high-end Servers. Optimized to support both 64bit/66MHz PCI and 32bit/33MHz PCI bus based systems, these adapters have been developed around GST's own highly advanced PCI bus ASIC. A state of the art ASIC enables the adapter to support true 64-bit wide throughput between the Gigabit Ethernet MAC interface, and the PCI bus, ensuring complete compatibility and maximum performance, while reducing CPU utilization.

## THE BIG PICTURE

- Compatible with IBM FC2975, FC5700, FC5701, FC5706, & FC5707.
- RS/6000, pSeries, IntelliStation, and p5 Servers compatible.
- Supports AIX 4.3.3 and higher.
- High performance.
- Cost effective.
- Lifetime warranty.

## PERFORMANCE

Supporting the 64bit/66MHz PCI bus bandwidth specification of 533MBps, four times higher than conventional 32-bit systems, the full-duplex NetDR™ will not be the bottleneck in your Server bus. In addition, both single port and Dual Link adapters allow 64-bit addressing in a single cycle to address more than 4 GB of RAM - almost a necessity for many of today's high-end Server applications. Compatibility for 32-bit systems is ensured through dual address cycle mode in all NetDR™ adapters.

## OVERVIEW

GST delivers high-end reliability for Gigabit Ethernet with the industry's first Dual Link Gigabit Ethernet Server adapter. Attaching your Server to two points in the network infrastructure means less down time. The NetDR Dual Link is the first adapter to deliver full service on one port, and keep the second port active as a redundant link. In the event of a cable, port or switch failure, the adapter will change to the full bandwidth Gigabit backup port - automatically. Dual Homing with a single GST adapter provides the ultimate in reliable Server connectivity while protecting your Server investment.



## KEY FEATURES & BENEFITS

**High-end reliability** – Unique two-port, "Dual Link" adapter provides redundant Gigabit Ethernet links in a single PCI slot for crucial Server applications that must have guaranteed connectivity.

- RLMT (Redundant Link Management) manages unattended and automatic failure recovery of downed links.
- Optimized Data Integrity: Parity checking and parity generation of onboard data paths.
- On-board temperature and volta sensors.
- PCI Hot Plug Compatibility - supports state of the art real-time service (OS dependent).

**Maximum performance** – Full Duplex Gigabit Ethernet: Single link and Dual Link Adapter.

- Hardware based TCP, UDP and IP checksum calculation.
- Full 64-bit wide data paths throughout.
- Dynamic Interrupt Moderation via GST's PacedPacketBatch technology - minimizes the number of interrupts and improves performance at high packet rates.
- 64bit/66MHz PCI Plug and Play design also supports existing.
- 32bit/33MHz PCI bus system

**ADDITIONAL Benefits** – 64-bit single cycle addressing, and 32-bit dual cycle addressing for more than 4GB of RAM.

- LED indicators for data, link status and active port (on Dual Link Adapter).
- SNMP manageable.
- 64bit/66MHz PCI (PCI v2.2 compliant).
- I20 compliant.

**Service and Supports** – A variety of support programs provide installation and onsite service; includes GST's Accelerated Ship Program (GASP) to get replacement units on the scene rapidly.

**Warranty** – Purchase price includes built-in lifetime warranty.



# GIGABIT ETHERNET SERVER ADAPTER



SPECIFICATIONS	2975-OEM	5700-OEM	5701-OEM	5706-OEM	5707-OEM
<b>General</b>					
Standards	10BASE-T, 100BASE-TX 1000BASE-T	1000BASE-SX	10BASE-T, 100BASE-TX 1000BASE-T	10BASE-T, 100BASE-TX 1000BASE-T	1000BASE-SX
IEEE Support	802.3z	802.3z	802.3z	802.3ab	802.3z
Connectors	Copper, RJ-45	LC Fibre	Copper, RJ-45	Copper, RJ-45	LC Fibre
Ports	Single	Single	Single	Dual	Dual
Wiring	Cat-5, 4-pair	Multi-Mode Fibre	Cat-5, 4-pair	Cat-5, 4-pair	Multi-Mode Fibre
Bus Interface	PCI	PCI or PCI-X	PCI or PCI-X	PCI or PCI-X	PCI or PCI-X
Bus Width	32- or 64-bit	32- or 64-bit	32- or 64-bit	32- or 64-bit	32- or 64-bit
Bus Speed (MHz)	33, 66	33, 66, 100, 133	33, 66, 100, 133	33, 66, 100, 133	33, 66, 100, 133
<b>OS Support</b>					
AIX 4.3.3 and higher	Yes	-	-	-	-
AIX 5.1 and higher	Yes	Yes	Yes	Yes	Yes
HP-UX, 11.00, 11.11, and 11.20	Yes	Yes	Yes	Yes	Yes
Linux 2.2.5 and higher	Yes	Yes	Yes	Yes	Yes
Novell NetWare 4.20+, 5, and 6	Yes	Yes	Yes	Yes	Yes
Solaris 7, 8, and 9	Yes	Yes	Yes	Yes	Yes
Windows 98, ME, XP	Yes	Yes	Yes	Yes	Yes
Windows NT 4.0	Yes	Yes	Yes	Yes	Yes
Windows 2000, 2003	Yes	Yes	Yes	Yes	Yes
<b>Technical Features</b>					
Data Rate(s) Supported Per Port	10, 100, & 1000Mbps	1000Mbps	10, 100, & 1000Mbps	10, 100, & 1000Mbps	1000Mbps
Onboard Memory	64KB	64KB	64KB	128KB	128KB
Interrupt Levels	INTA	INTA	INTA	INTA	INTA
Data Path Width	32-bit and 64-bit PCI	32-bit and 64-bit PCI	32-bit and 64-bit PCI	32-bit and 64-bit PCI	32-bit and 64-bit PCI
Hardware Certifications	FCC B, CE	FCC A, CE	FCC A, CE	FCC A, CE	FCC A, CE
Data Transfer Mode	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA
<b>Advanced Features</b>					
ACPI Power Management	Yes	Yes	Yes	Yes	Yes
Bus Speed (MHz)	33, 66	33, 66, 100, 133	33, 66, 100, 133	33, 66, 100, 133	33, 66, 100, 133
<b>OS Support</b>					
AIX 4.3.3 and higher	Yes	-	-	-	-
AIX 5.1 and higher	Yes	Yes	Yes	Yes	Yes
HP-UX, 11.00, 11.11, and 11.20	Yes	Yes	Yes	Yes	Yes
Linux 2.2.5 and higher	Yes	Yes	Yes	Yes	Yes
Novell NetWare 4.20+, 5, and 6	Yes	Yes	Yes	Yes	Yes
Solaris 7, 8, and 9	Yes	Yes	Yes	Yes	Yes
Windows 98, ME, XP	Yes	Yes	Yes	Yes	Yes
Windows NT 4.0	Yes	Yes	Yes	Yes	Yes
Windows 2000, 2003	Yes	Yes	Yes	Yes	Yes
<b>Technical Features</b>					
Data Rate(s) Supported Per Port	10, 100, & 1000Mbps	1000Mbps	10, 100, & 1000Mbps	10, 100, & 1000Mbps	1000Mbps
Onboard Memory	64KB	64KB	64KB	128KB	128KB
Interrupt Levels	INTA	INTA	INTA	INTA	INTA
Data Path Width	32-bit and 64-bit PCI	32-bit and 64-bit PCI	32-bit and 64-bit PCI	32-bit and 64-bit PCI	32-bit and 64-bit PCI
Hardware Certifications	FCC B, CE	FCC A, CE	FCC A, CE	FCC A, CE	FCC A, CE
Data Transfer Mode	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA	Bus-Master DMA
<b>Advanced Features</b>					
ACPI Power Management	Yes	Yes	Yes	Yes	Yes
Adapter Fault Tolerance	Yes	Yes	Yes	Yes	Yes
Adaptive Load Balancing	Yes	Yes	Yes	Yes	Yes
Adaptive Performance Tuning	Yes	Yes	Yes	Yes	Yes
Auto-Negotiation, Full-Duplex	Yes	Yes	Yes	Yes	Yes
Auto-Negotiation, Half-Duplex	Yes	-	Yes	Yes	-
Boot Agent	Yes	Yes	Yes	Yes	Yes
Hot Plug	Yes	Yes	Yes	Yes	Yes
Link Aggregation	Yes	Yes	Yes	Yes	Yes
Offline Diagnostics	Yes	Yes	Yes	Yes	Yes
Plug & Play Specification Support	Yes	Yes	Yes	Yes	Yes
TCP Checksum Offload	Yes	Yes	Yes	Yes	Yes



3419 Via Lido, Suite 164  
 Newport Beach, CA 92663  
 949.673.1248 - 949.673.3163 Fax  
[www.gstinc.com](http://www.gstinc.com) - [sales@gstinc.com](mailto:sales@gstinc.com)

GST, Inc. engineers, manufactures, markets and sells a full line of tape, disk, networking, and memory hardware and high availability and security software plus storage-related services for the midrange server community. Product development closely tracks market needs, providing latest engineering, product design and customer support facilities. For information about the company, its products and support see: <http://www.gstinc.com>.