

MODELS

ServerNet PCI Adapter

Adapter*309833-B21***Adapter***309833-291***4M Cable***309834-B21***30M Cable***309834-B22*

An industry-standard high speed, low latency interface to a Compaq System Area Network (SAN)

A PCI form factor adapter supporting the Tandem ServerNet Interface

The SAN ServerNet Adapter may be used with the ProLiant Cluster Series F Model 100, F/500 cluster kits and Cluster Bundles as an optional interconnect for Cluster heartbeat and management communications.

OVERVIEW

Usage

A high speed, low latency Network Interface Card (NIC) designed for inter-processor communications. The ServerNet Interface Adapter (SPA) may be used in server and workstation clusters.

Configuration Flexibility

The SPA can be used in a point to point network configuration. It supports either single or dual network cables for high availability cluster communications.

Fault Tolerant Transaction Support

Transactions are processed through the SPAS across one of the NIC ports. If the port fails, and the interconnect is mirrored using the alternate NIC port, transactions will be automatically rerouted through the second or alternate port without loss of data or performance.

Dual Port Data Performance Capability

The SPA supports dual ports for data transmission in a point to point network. Network performance depends on such factors as the software protocol selected and block size allocated. Theoretical bandwidth performance per fabric is 50 MB/s.

Manageability/Redundancy Network Interface Fault Recovery Tracking

The SPA is supported by the Compaq Insight Manager for fault detection and operational management. The adapter drivers are provided as part of the Compaq SSD for ease of installation.

Compatibility and Integration Testing

The SPA has been tested on a variety of Compaq product families including ProLiant Servers and Professional Workstations.

COMPAQ

OVERVIEW *(continued)*

Option Kit Contents

SPA Adapter: One PCI adapter with a DB60 Pin connector, software support CD, install guide, product quality statements, and warranty information. This adapter is installed in Compaq ProLiant Servers or Professional Workstations that are participating in a cluster. SPA Adapter – Part Number 309833-B22 and 292 are required in all Pentium II and Xeon based machines. They can be used in conjunction with part Number 309833-B21 and 291 adapters installed in Pentium and Pentium Pro machines with software to refresh for Pentium and Pentium Pro SPA drivers.

SPA Adapter Interface Cables: Either a 4M or 30M, 60 wire, shielded, twisted pair cable, with 60-pin connectors are used by the SPA Interface Adapter for use in either intra-rack mount (4M), inter-rack mount (30M), and stand alone servers (4M - 30M). It is recommended that 309834-B23 be used for all Rack mounted solutions for ease of installation and maintenance.

Warranty

One year limited warranty. Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

SPECIFICATIONS

Network Interface

The SPA is implemented with 18 signal wires/port, two clocks/port, and a ground. Signal Interface is Low Voltage Differential Signaling (LVDS). This requires a unique parallel cable in either 4M or 30M lengths.

System Area Network Architecture

Servers that have been tested with the ServerNet adapter card are the PL850, PL1850, PL2500, PL3000, PL5000, PL5500, PL6000, PL6500 and PL7000.

System Area Network Data Transfer Routing

System Area Network data transfer routing algorithms and hardware assisted data buffering provide a constant data transfer rate. The SAN wormhole routing technology, combined with packet switching, allows an aggregate data rate based on the Mesh concept up to 100 MB/s in a two node single fabric SAN.

Connectors

Dual Redundant 60-Pin DB Connectors

Equipment Requirements

One PCI bus-master slot
One or two ServerNet SAN cables

Standards Compliance

FCC Class B
CISPR 22/EN 55022
C.R.C., c.1374 (Canadian Radio Interference)
CE Mark
New Zealand Radio Frequency Service, RFS49
EN 50082-1, IEC 801-2,3,4
Council Directive 89/336/EEC
IEC 950/EN 60 950
UL 1950
CSA 22.2-950
VDE 0805/IEC950

SPECIFICATIONS *(continued)*

I/O Address

0XF0040 - 0XF0180 in increments of 0X40

Environmental Requirements

Operating: 41° to 131°F/5° to 55°C
10% to 85% humidity (non-condensing);
10,000 Ft. Operating altitude
Non-operating: -40° to 150°F/-40° to 66°C
10% to 95% humidity (non-condensing)
Shipping: -40° to 150°F/-40° to 66°C
40,000 ft altitude

OS and Application Driver Support

- MS Windows NT Server Version 4.0 with Service Pack 3 or later
- MS Windows NT Server Enterprise Edition Version 4.0 with Service Pack 3 or later