

PCI Token Ring Release Notes for HP-UX 10.20



**Manufacturing Part Number: J1644-90022
E0301**

U.S.A.

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Regulatory/Safety Statements

FCC EMI Statement (USA Only)

The Federal Communications Commission (in 47 CFR 15.19, 15.21 and 15.105) has specified that the following notices be brought to the attention of the users of this product.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residence is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cables used with this device must be properly shielded and grounded, terminating in either an RJ-45 or 9-pin D-shell connector. Any changes or modifications to this equipment not expressly approved by the Hewlett-Packard Company may cause harmful interference and void the FCC authorization to operate this equipment.

The end user of this product should be aware that any changes or modifications made to this equipment without the approval of Hewlett-Packard could result in the product not meeting the Class A limits, in which case the FCC could void the user's authority to operate the equipment.

Industry Canada EMI Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Europe EMI Statement

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

EMI (Australia and New Zealand)

This product meets the applicable requirements of the Australia and New Zealand EMC Framework.

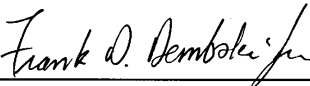


Safety Precautions

WARNING **Before installing this product, refer to the installation instructions, including any safety precautions, for the Hewlett-Packard workstation product on which this product will be installed.**

This product has two connectors, an RJ-45 and a 9-pin D-shell connector. It is important that the user connects to one or the other, but never to both at the same time. Refer to the *PCI Token Ring Adapter Quick Configuration Guide* (J1644-90024) for additional information.

Declaration of Conformity

DECLARATION OF CONFORMITY according to ISO/IEC Guide 22 and EN 45014	
Manufacturer's Name:	Hewlett-Packard Company
Manufacturer's Address:	8000 Foothills Blvd. Roseville, CA 95747 USA
declares, that the product	
Product Name:	PCI Token Ring Network Interface Cards
Model Number(s):	A4930-60001 (Product Number A4930A, 4/16 Mbps) A5783-60001 (Product Number A5783A, 4/16/100 Mbps)
Product Options:	All
conforms to the following Product Specifications:	
Safety:	IEC 950:1991 + A1, A2, A3, A4 / EN 60950:1992 + A1, A2, A3, A4
EMC:	CISPR 22:1993 / EN 55022:1994 - Class A EN 50082-1:1992, Generic Immunity, including: IEC 801-2:1984, 8 kV AD IEC 801-3:1984, 3 V/m IEC 801-4:1988, 1 kV Power Lines 0.5 kV Signal Lines
Supplementary Information:	
The product herewith complies with the requirements of the EMC Directive 89/336/EEC and carries the CE marking accordingly.	
Roseville, CA, March 3, 1999	 Frank D. Dembski Jr., Quality Manager
European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department TRE, Herrenberger Straße 130, D-71034 Böblingen (FAX: + 49-7031-14-3143)	

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3000 Hanover Street
Palo Alto, California 94304
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PCI Token Ring Release Notes

This document applies to the latest release of the PCI Token Ring for HP-UX 10.20.

What's In This Version?

Benefits and Features

PCI Token Ring software (product number A5783A) supports 100/16/4 Mb/s hardware (part number A5783A) on all HP9000 workstations with the PCI bus.

The hardware is customer-installable on all PCI workstations. Refer to the hardware installation section in the *Installing and Administering Token Ring/9000* manual for detailed installation instructions.

Fixes

Some fixes were incorporated into this release. See the section "Patches and Fixes in This Version" for more information.

Availability of Documentation

The list below contains documentation related to PCI Token Ring.

- *PCI Token Ring Quick Configuration Guide* (J1644-90024).
- *Installing and Administering Token Ring/9000* (J1644-90018).

These documents are also available at <http://www.docs.hp.com> under "Networking and Communications."

Known Problems and Workarounds

- PHNE_18173 (core LAN products patch) or any patch that supersedes it must be installed before the software product is installed. System panics can result if this patch is not installed prior to configuring PCI Token Ring.

- If the PCI Token Ring adapter is connected to a switch port or MAU and a mutually incompatible configuration is used, the driver and adapter may repeatedly try to connect into the network and fail. It is best to execute the shutdown script:

```
/sbin/rc1.d/K685pcitr stop, correct the problem then execute:  
/sbin/rc2.d/S315pcitr start.
```

This has the side effect of shutting down and restarting all PCI Token Ring links on the system.

- The NetTL message logged for cable disconnect is different for 16/4 Mb/s and 100 Mb/s operation.

In 4/16 Mb/s, the message logged is:

```
"Cable disconnected/faulty"  
class ERROR #2009
```

In 100 Mb/s, the message logged is:

```
"Internal error after beacon auto removal process"  
class ERROR #2010
```

In either case, when the cable is re-connected, the following message will be seen:

```
"Link back online"  
class INFO #4001
```

- A 100 Mb/s port on a switch will only support 100 Mb/s speed. A 16/4 Mb/s switch/MAU port will only support 16/4 Mb/s operation. Care should be taken while connecting the PCI Token Ring adapters to the network.

Compatibility Information and Installation Requirements

Software Requirements

The system must have standard HP-UX 10.20 core products, including STREAMS and LAN/9000 software, installed on it.

Hardware Requirements

A5783A is supported on all HP 9000 workstations with the PCI bus.

OS Platform and Version Compatibility

HP-UX CORE B.10.20.

Other Requirements

PHNE_18173 is required.

SAM patch PHCO_21186 or any patch that supersedes it, is required for configuration through SAM.

Disc Space Required for Installation

This product requires 700K bytes in addition to the current disc space being utilized.

Install/System Up or Down

Software installation causes a system reboot.

Common Mistakes or Gotchas

- Install PHNE_18173 before installing the software product(s).
- Install PHCO_21186 or any patch that supersedes it, before attempting SAM configuration.

Hardware Installation Instructions

Refer to the *Installing and Administering Token Ring/9000* manual.

The following system classes are customer-installable:

- B-Class
- C160 and higher
- J2240, J5000, J6000, and J7000

Software Installation Instructions

Refer to the *Installing and Administering Token Ring/9000* manual.

After reboot, check the `what (1)` string on the kernel. Execute:

```
what /stand/vmunix | grep token
```

You should see:

```
A5783A/J1644AA HP PCI Token Ring <version> (<release>) <date>
```

where

<version> is B.10.20.01

<release> is DART 52

<date> is Dec 20 2000

Configuration Instructions

Refer to the *Installing and Administering Token Ring/9000* manual.

Setting Speed and Duplexity

Refer to the *Installing and Administering Token Ring/9000* manual.

Patches and Fixes in This Version

The following are fixes in this version:

- `lanscan(1M)` now shows the MAC address of the PCI Token Ring card immediately after initialization, even if the cable is not connected.
- `linkloop(1M)` to itself, through a switch, will now work even if the card is in full duplex mode.
- The driver will now be able to transmit to multicast destinations without being a member of that multicast group.

Software Availability in Native Languages

This product is available only in the English language.