

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Keysight / Agilent A5513A* at our website: ***Click HERE***

HP A5513A and A5515A HP-PCI ATM/155 Adapters Installation Quick-Reference Card

Product Description

The A5513A HP-PCI ATM/155 Multi-Mode Fiber (MMF) adapter, A5515A HP-PCI ATM/155 UTP Cat5 RJ45 (UTP Cat5) adapter, and ATM link software make up a high-performance solution for use in the HP 9000 V-Class, N-Class, and L-Class Enterprise Servers, and the HP VISUALIZE UNIX B1000, C3000, and J5000 Workstations. It has been designed to best meet high-speed requirements and a large number of connections per HP system.

WARNING **Only qualified Hewlett-Packard personnel can install ATM adapters in the HP 9000 V-Class Enterprise Servers.**

Before Installing the HP-PCI ATM/155 Adapter

Before you install the HP-PCI ATM/155 adapter, do the following steps:

Step 1. Check the Hardware and Software Requirements

Ensure that your hardware and software meet the applicable requirements:

- ✓ Slot requirements.
- ✓ Number of adapters that can be installed simultaneously. The *HP ATM Release Note* contains specific information about how many ATM adapters you can install in each type of system.
- ✓ HP-UX operating system version:
  - For V22*xx* servers: HP-UX 11.0 plus Extension Pack 9905.
  - For V2500 servers: HP-UX 11.0 plus Extension Pack 9905.
  - For N-Class servers: HP-UX 11.0 plus Extension Pack 9905.
  - For L-Class servers: HP-UX 11.0 plus Extension Pack 9905.
  - For B1000, C3000, and J5000 workstations: HP-UX 10.20 ACE or 11.0 plus Extension Pack 9905.

  See the *HP ATM Release Note* for any patches you might also need to install.
- ✓ V-Class system firmware version:
  - For Model V22*xx*: Test Station software version 5.0.
  - For Model V2500: Test Station software version 1.1.

Step 2. Check for Correct System Documentation

Ensure that you have the appropriate manual for the HP 9000 system you are installing the adapter in. Remember that, as stated earlier, qualified HP personnel must do the installation for V-Class servers.

Step 3. Ensure That You Have the Correct Hardware, Software, and Documentation

Ensure that you have the following items:

- ✓ One HP-PCI ATM/155 adapter (product number A5513A or A5515A).

CAUTION Keep the HP-PCI ATM/155 adapter in its protective antistatic bag until installation. Electronic components can be damaged by even small amounts of static discharge. So, we highly recommend that you use antistatic procedures when handling this or any other computer component. Handle the adapter by the edges only and avoid touching all components and metal parts. Do not store near strong electrostatic, electromagnetic, or radioactive fields.

- ✓ One grounding wrist strap.
- ✓ One UTP Cat5 loopback hood (provided with the A5515A adapter only).
- ✓ One HP-UX Applications Software CD containing the ATM link software.

  Note that the ATM software is *not* locked. So, you do not need a codeword to unlock and install the software.
- ✓ The *HP ATM Release Note* (hardcopy or on the Instant Information CD).
- ✓ One *ATM Configuration and Troubleshooting Guide* (hardcopy or on the Instant Information CD).

If any of the above items are missing, please contact your HP representative.

NOTE When you unpack the adapter and ATM software, keep all original packing materials for storing, transporting, or returning the product if necessary.

Step 4. Record the Product Identification Information

Record the part number and date code of the adapter for future reference. If the adapter needs service in the future, HP service

personnel will need the part number and date code. This information is provided on a sticker attached to the adapter. The sticker looks similar to this example:

A5513-60001	USA
	A-*xxxx*

The number in the upper left corner (A5513-60001 in this example) is the printed circuit assembly part number.

The 5-digit alphanumeric string in the lower right corner (A-*xxxx* in this example) is the product version and date code.

Step 5. Check the Switch Specifications

Check the following on the ATM switch:

- ✓ It supports the appropriate interface for your HP-PCI ATM/155 adapter: MMF 155 Mbits/second or UTP Cat5 155 Mbits/second.
- ✓ It has SC or ST connectors if you are using the HP-PCI ATM/155 MMF adapter.
- ✓ It is UNI 3.0, 3.1, or 4.0 compliant.

Step 6. Ensure That You Have the Necessary Addresses

Ensure that you have the needed addresses, as follows:

- ✓ For Classical IP installations, you need the ATM adapter's IP address and subnet mask.
- ✓ For installations where the node will run as an ATM ARP client, you need to know the ATM address of the ATM ARP server it will use.
- ✓ For installations where you intend to use LAN emulation, you need the following information:
  - An IP address and net mask for each emulated LAN.
  - The ATM address of the LECS (LAN emulation configuration server).
  - The selector ID.

Step 7. Ensure That You Have the Correct Cables

Be sure you have the correct type of cable for the HP-PCI ATM/155 adapter you are using:

- ✓ MMF: The adapter has SC connectors. For connecting to ATM switches with ST connectors, SC-to-ST duplex adapters are needed. Check that you have the following cables, as applicable:
  - SC-to-SC cable.
  - SC-to-ST cable (duplex adapter).
  - SC loopback connector (for troubleshooting).
- ✓ UTP Cat5: Use direct cables to connect to ATM switches. In a back-to-back configuration, use a crossover cable to connect two adapters.

Installing the HP-PCI ATM/155 Adapter

WARNING **Electric shock hazard. Power off the system and disconnect it from the electricity supply before opening the system or accessing the slots. Failure to do this can result in an electrical shock hazard and possible damage to the adapter or system.**

For V-Class servers, qualified HP personnel must do the installation. For all other HP 9000 systems, follow the steps in the system documentation.

Be sure to follow antistatic precautions to help prevent static buildup that might cause damage.

Use an antistatic mat (or a static-controlled workstation) and a grounding wrist strap to channel your own static charge safely to ground.

CAUTION Some of the components of the adapter are susceptible to damage by static discharge. Degraded performance, shortened product life, or loss of operation can result from not observing precautions.

LED Colors and Meanings

The HP-PCI ATM/155 adapter has two LEDs: R (receive) and T (transmit). The table below explains their colors and meanings.

LED	Color	Meaning
R	None (“off”)	A receive cable is correctly attached to the adapter.
	Solid amber	The adapter is seated correctly in the system, but no receive cable is attached to the adapter. NOTE: In a back-to-back configuration, a receive cable is attached to the adapter, but the *other* system performed an `atmstop`.
	Flashing green	Data is being received.
T	None (“off”)	This LED is “off” both when a transmit cable is correctly attached to the adapter *and* when no transmit cable is attached.
	Flashing green	Data is being transmitted.

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: Hewlett-Packard Company
Internet & Applications Systems Division

Manufacturer's Address: 8000 Foothills Blvd.
Roseville, CA 95747
USA

declares, that the product

Product Name: HP PCI ATM Adapters

Model Number(s): A5483A (A5483-60001 HP-PCI ATM/622 MMF Adapter)
A5513A (A5513-60001 HP-PCI ATM/155 MMF Adapter)
A5515A (A5515-60001 HP-PCI ATM/155 UTP Cat5 Adapter)

Product Options: All

conforms to the following Product Specifications:

Safety: IEC 950:1991 + A1, A2, A3, A4 / EN 60950:1992 + A1, A2, A3, A4, A11
GB 4943-1995
IEC 825-1:1993 / EN 60825-1:1994 + A11, LED Class 1
EN 60825-2:1994

EMC: CISPR 22:1993 / EN 55022:1994 - Class A[1]
GB 9254-1988
EN 50082-1:1992
IEC 801-2:1991 / prEN 55024-2:1992, 4 kV CD, 8 kV AD
IEC 801-3:1984 / prEN 55024-3:1991, 3 V/m
IEC 801-4:1988 / prEN 55024-4:1993, 0.5 kV Signal Lines
1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and carries the CE marking accordingly.

1) The Product was tested in a typical configuration with Hewlett-Packard information technology equipment.

Frank D. Dembski Jr.

Roseville, CA, March 1, 1999

Frank D. Dembski Jr., Quality Manager

European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE, Herrenberger Straße 130, D-71034 Böblingen (FAX: + 49-7031-14-3143)

Copyright and Trademark Information

The information in this document is subject to change without notice.

Hewlett-Packard makes no warranty of any kind with regard to this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty. A copy of the specific warranty terms applicable to your Hewlett-Packard product and replacement parts can be obtained from your local Sales and Service Office.

© 1999 Hewlett-Packard Company, all rights reserved.

Reproduction, adaptation, or translation of this document without prior written permission is prohibited, except as allowed under the copyright laws.

UNIX is a registered trademark of The Open Group.

Safety Information

WARNING **All inputs/outputs are Safety Extra Low Voltage (SELV) circuits.**

CAUTION The hardware contains electronic components that can be damaged by static electricity. To avoid damage, follow these guidelines:

- Store the hardware in its conductive plastic bag.
- If possible, work in a static-free area.
- Handle circuit boards by the edges only.

Do not touch electronic components or electrical traces. We strongly recommend that you use a grounding wrist strap that is connected to the metallic chassis of the host computer. If you do not have a wrist strap, touch the chassis before handling adapters and frequently thereafter to equalize any static charge.

LED Safety Information

The optic module provided in the HP A5513A HP-PCI ATM/155 adapter meets LED AEL Class 1 requirements per EN 60825-1:1994 (+ A11) and EN 60825-2:1994.

Wavelength: 1300 nm.

Regulatory Information

Optic Module

The optic module provided in the HP A5513A and A5515A HP-PCI ATM/155 adapters conforms to the ITU-T recommendation G.957 cat I-1 or I-4.

For the United States

Federal Communications Commission (FCC) Radio Frequency Interference Statement.

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 might cause undesired operation.

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 the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Hewlett-Packard's system verification tests were conducted with HP-supported peripheral devices and cables, such as those received with the system. Changes or modifications to this equipment not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

For Canada

For Canadian Regulations ICES-003.

Complies with Canadian Electromagnetic compatibility (EMC) Class A requirements.

Conforme à Classe A des normes canadiennes de compatibilité électromagnétique (CEM).

For Europe

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.

HP Part No.
A5513-90004

Copyright © 1999
Hewlett-Packard Company

Printed in USA E1299

HEWLETT® PACKARD

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP