



# 155Mbps ATM Network Interface Card (NIC) in PCI Card Edge Form Factor

**PRELIMINARY**  
**IDT7M924**  
**IDT7M925**

## Features:

- ◆ Complete 155Mbps PCI-bus ATM Network Interface Card
- ◆ Supports 33MHz, 32-bit PCI bus
- ◆ 155Mbps Multimode fiber optical interface (7M924)
- ◆ 155Mbps UTP-5 PHY interface (7M925)
- ◆ Capable of supporting up to 16K receive connections
- ◆ Supports tens of thousands of transmit connections
- ◆ E<sup>2</sup> PROM layout for Sub-vendor ID
- ◆ Small Form Factor: 2.5 x 6 inches
- ◆ "SARWIN" software evaluation program available for Windows 3.1™
- ◆ Third Party Software available:
  - Harris & Jefferies  
Novel Netware™ Drivers  
888 Washington Street, Dedham,  
Massachusetts, 02026  
(617) 329-3200 (phone) (617) 329-4148 (FAX)  
chrisb@hjinc.com
  - Advancenet Systems Inc.  
Windows NT™ and Windows 95™ Drivers  
406 Timbermill Rd., Durham, North Carolina 27713  
(919) 544-5601 (phone) (919) 544-4601 (FAX)  
j.harford@ieee.org or  
75141,2635@compuserve.com

## Description

The IDT7M924/25 provides reliable, high performance Asynchronous Transfer Mode connectivity for PCI Card Edge based systems. The IDT7M924 provides a fiber media physical (PHY) interface; the 7M925 supports Unshielded Twisted Pair, Category 5 (UTP-5) cabling. Otherwise identical, they both feature complete PCI-bus ATMNIC functionality, plugging directly into PCI bus expansion slots.

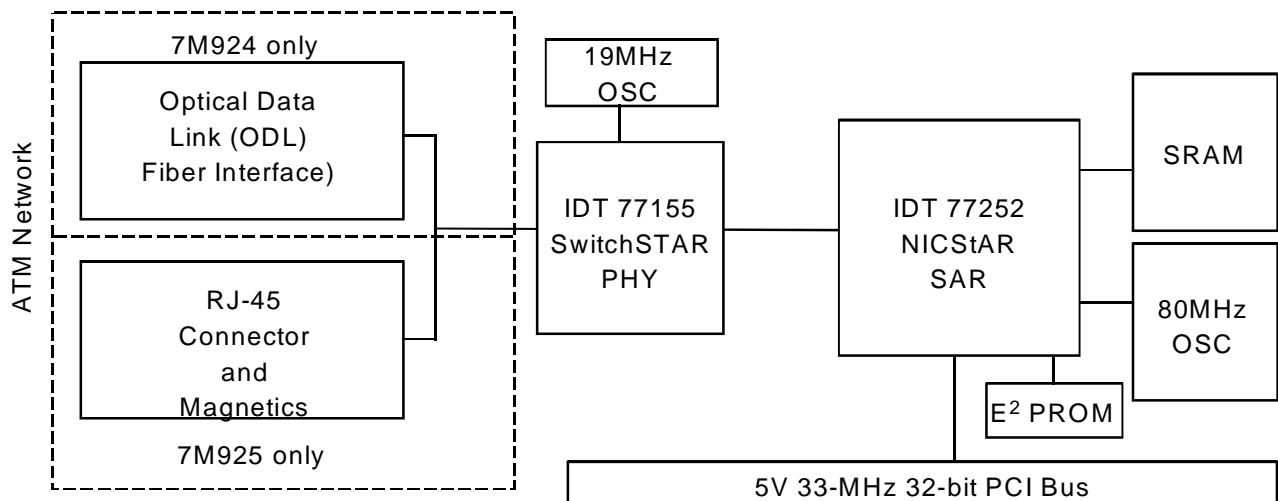
## COMPATIBILITY AND CONFIGURATION

The board is designed for use in PCI systems, which may include PC compatibles, MIPS, Alpha, Windows NT systems, and PowerPC/Macintosh systems. The IDT7M924/25 supports the 32 bit, 33 MHz, 5V PCI spec, although this also permits operation in a 64-bit, 33 MHz, 5V. PCI slot.

## OVERVIEW

The heart of the board is the IDT 77252 ABRNICStAR™ Segmentation And Reassembly (SAR) controller. The IDT 77252 ABR SAR connects directly to the PCI bus, a private SRAM/EPROM bus, and the Utopia PHY interface. The PHY device is an IDT77155 PHY. The PHY device connects in turn to an AMP 269039-1 optical data link (ODL) device for the fiber optic connection (IDT7M924), or to a Pulse Engineering PE-68532 transceiver for the UTP-5 connection (IDT7M925). The ODL incorporates its own fiber optic connectors; the UTP option includes a line interface/filter transformer and a standard RJ-45 jack.

## Functional Block Diagram



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