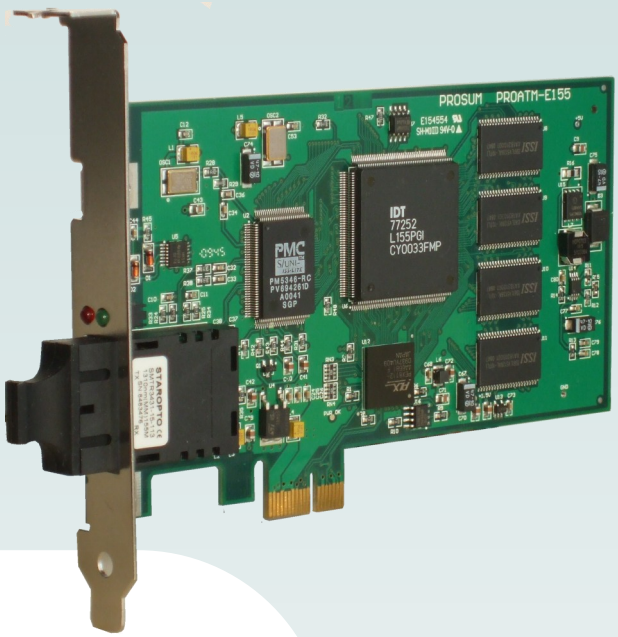
PCI Express Network Interface Cards for 155 Mbps ATM Connections (OC3)

PROATM-E155F
PROATM-E155FM
PROATM-E155FLH



PROATM-E155

ATM Networks

The PROATM-E155 PCI Express ATM adapters are intended for use into servers, routers and test benches that connect to ATM fiber optic networks (STS/STM-1/OC3). Their performance, reliability, level of compatibility and cost effectiveness make them the best solution for all applications involving a 155-Mbps ATM connection.

- Single mode and multimode fiber optic models
- Drivers for Windows 7, Windows Vista, Windows XP/2000, Linux and FreeBSD
- Support of 32-bit and 64-bit Windows and Linux technologies
- Software application sample
- Long life products
- Works in PCI Express x1 to x16 slots
- 16384 connections
- Free technical support
- 3-year warranty

PROSUM Networking Products

12 rue Sadi Carnot
94880 Noiseau, France

Phone: 331 4590 6270
Fax: 331 4590 6270
E-mail: contact@prosum.net
Internet : www.prosum.net

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Examples of use

Connection of workstations and servers; Implementation of ATM / Ethernet cost-effective border routers; PPPoA and PPPoE DSLAM connections; Traffic generation for AAL0, AAL2 and AAL5 test benches; Monitoring; Transmission of video and/or sound into several independent channels.

Operating System Compatibility

On Windows XP/Vista: The new PROATM-WDM driver allows for Classical IP (RFC 1577) and Multiprotocol (RFC 2684) connections. It supports the UBR, CBR and VBR Qualities of Service. It is compatible with Winsock.

On Windows 2000/XP: The NDIS 5.0 driver gives access to the Microsoft ATM software layers. It supports the UBR, CBR, VBR and ABR Qualities of Service and is compatible with Winsock2.

On Linux: A rich set of functions is available on this operating system. Download the linux-atm package from ATM on Linux or linux-atm-2.4.1. The nicstar2.tgz driver runs on Linux kernels 2.4.xx and 2.6.xx. It supports the UBR, CBR, VBR and ABR Qualities of Service and manages the OAM cells automatically. It is provided as open source software.

On FreeBSD: The proatm.tar.gz driver runs on FreeBSD 3.5, 3.51, 4.1 and newer. With 5.xx kernels, use the new PATM driver. The card and the driver comply with the HARP ATM software and support the UBR, CBR and VBR Qualities of Service.

Technical Specifications

- **SAR:** IDT 77252
- **Theoretical Data Transfer Rate (OC3):** 155.52 Mbps Full Duplex
- **Practical Data Transfer Rate:** 130 Mbps
- **Simultaneous Connections:** 16384
- **VPI/VCI:** 14-bit encoding
- **ATM and SONET Standard Compliance:**
  - ◊ AAL5, AAL0
  - ◊ CBR, VBR, UBR, ABR (SAR)
  - ◊ UNI 3.0, UNI 3.1 (ILMI included)
  - ◊ SONET/SDH, STS/STM-1/OC3
- **PROATM-E155F Fiber ATM port:**
  - ◊ Fiber: multimode 62/125 and 50/125, max 2 km; Wavelength: 310 nm ; Sensitivity: -29 dBm ; Output Power: -20 to -14 dBm ; Max Input Power: -14 dBm
- **PROATM-E155FM Fiber ATM port:**
  - ◊ Fiber: single mode, max 15 km; Wavelength: 1310 nm; Sensitivity: -38 dBm ; Output Power: -15 to -8 dBm; Max Input Power: -6dBm
  - ◊ Class 1 laser product. It complies with IEC 60825-1 and Telcordia GR-468-CORE
- **PROATM-E155FLH Fiber ATM port:**
  - ◊ Fiber: single mode, max 40 km; Wavelength: 1310 nm ; Sensitivity: -38 dBm ; Output Power: -8 to -5 dBm ; Max Input Power: -6 dBm
  - ◊ Class 1 laser product. It complies with IEC 60825- and Telcordia GR-468-CORE
- **Connector: Duplex SC**
- **On board memory:** 2048 KB
- **Indicators**:
  - ◊ Red: Link
  - ◊ Green: Driver is running
- **PCI Express Bus:** Can work into x1 and x16 slots
- **PC Data Transfer:** Direct Memory Access (DMA)
- **Operating Voltage and Current:** 3.3V, 1.5 A max
- **Operating Temperature:** 0° C to 50° C (32° to 131° F)
- **Operating Humidity:** 10% to 90%, non condensing
- **MTBF:** 700 000H
- **Size:** 120 mm x 75 mm
- **Compliance FCC**: Part-15 class B
- **Compliance CE Marking:**
  - ◊ **Safety:** EN50082-1
  - ◊ **Emissions:** EN 55022 Class A
- **RoHS:** 5/6

Ordering Information

PROATM-E155F: Multi mode fiber, 2km
PROATM-E155FM: Single mode fiber, 15km
PROATM-E155FLH: Single mode fiber, 40km