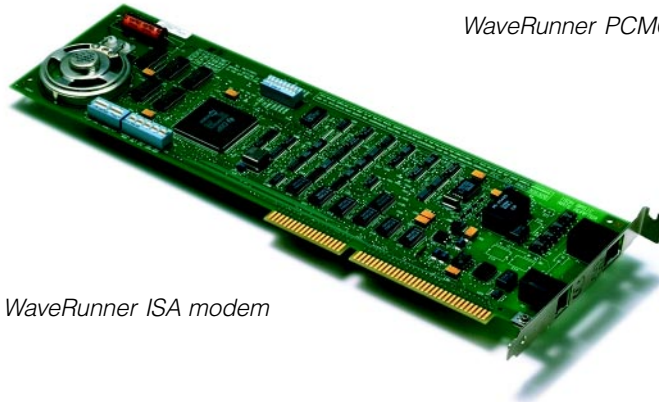*Break the communications bottleneck!*

IBM ISDN Digital Adapters

- **Multiple versions for ISDN digital communications**

- **ISDN BRI 2B + 1D in data mode up to 128 Kbps**

- **28.8-Kbps analog adapter support**

- **Combination with IBM 7845 ISDN Network Terminator Extended**

- **LAN access for remote users through the IBM 8235 and ISDN**

- **Interoperability with Internet service providers and remote-access servers**

- **Microsoft® Windows® 95 ISDN Accelerator package support**

- **Microsoft Remote Access Services (RAS) client support**

WaveRunner PCMCIA card

WaveRunner ISA modem

The WaveRunner® adapter is an internal adapter that allows a PC or IBM PS/2 computer to communicate with ISDN DTE at speeds up to 128 Kbps. It comes in a full-size ISA version and a PCMCIA version. The adapter attaches to ISDN BRI telephone service lines. The PCMCIA model can also attach to analog POTS lines.

The IBM 7845 Network Terminator Extended (NT Extended) connects your equipment to the ISDN service line from the telephone company. It can also be configured to support an ISDN adapter such as the WaveRunner adapter on one B-channel while supporting a standard analog phone or phones on the other B-channel. The 7845 also supports custom-calling features such as speed dialing, redial, call hold/return, call retrieve, call waiting and conference calling. A rechargeable battery ensures continuous ISDN service during a power outage.

Product Overview

The WaveRunner Digital Adapter and 7845 ISDN NT Extended combine to give you a complete ISDN solution. It's the ideal way to use the added bandwidth of digital communications— bandwidth you need to handle the larger files in today's applications— without cutting yourself off from analog devices.

Based on IBM's advanced Mwave® Digital Signal Processor (DSP), and available as an easily installed internal adapter for ISA desktop systems or as a PCMCIA card, the WaveRunner adapter provides all these capabilities at a cost-effective price:

• Digital communication of data at up to 128 Kbps over ISDN lines

• Digital communication of data to equipment connected to the digital network over a 56-Kbps or 64-Kbps clear channel

• Analog communications over ISDN to adapters and fax machines on conventional telephone networks

An attractively priced package combines the WaveRunner ISA or PCMCIA adapter with the 7845 ISDN NT Extended. The NT Extended supports both B-channels—and lets you choose how to use them. For example you can connect a B-channel to the WaveRunner adapter and convert the second channel into a standard analog interface for connecting to all your existing analog telephone equipment

and fax devices. Or you can use the NT Extended as you would a standard Network Terminator, passing both B-channels and the D-channel to your WaveRunner adapter.

Benefits

• Provides enough bandwidth to handle computing-intensive applications like multimedia, Web graphics and videoconferencing

• Interoperates with other ISDN devices using commonly available communications packages while retaining the ability to continue operating with existing analog adapter or fax destinations

ISDN Digital Adapters Specifications

	ISA WaveRunner	7845 ISDN NT Extended
Physical specifications		
Width	54 mm (2.1 in.)	208.3 mm (8.2 in.)
Depth	5 mm (0.2 in.)	218.4 mm (8.6 in.)
Height	35.5 mm (1.4 in.)	35.6 mm (1.4 in.)
Weight	1.1 kg (2.5 lb)	1.4 kg (3.1 lb)
Operating environment	Temperature: 10° to 40°C (50° to 104°F)	
	Relative humidity: 8% to 80%	
	Maximum wet-bulb temperature: 23°C (73°F)	
	Electrical power: +5 volts	
	Certification: FCC Class B Worldwide certification for Europe, Asia-Pacific and Latin America	

Key Customer Benefits

• Interoperability of the WaveRunner adapter with Internet service providers and remote-access hubs
• Analog connectivity for mobile users
• Upgradable Mwave DSP via software download

Supplementary Information

The following sales tools are available for the ISDN Digital Adapters:

• Specification sheet:
  IBM ISDN Digital Adapters, G221-4076-01

• Information on the ISDN Digital Adapters is available at:
  www.networking.ibm.com/netprod.html#isdn