COM port bottleneck breaker

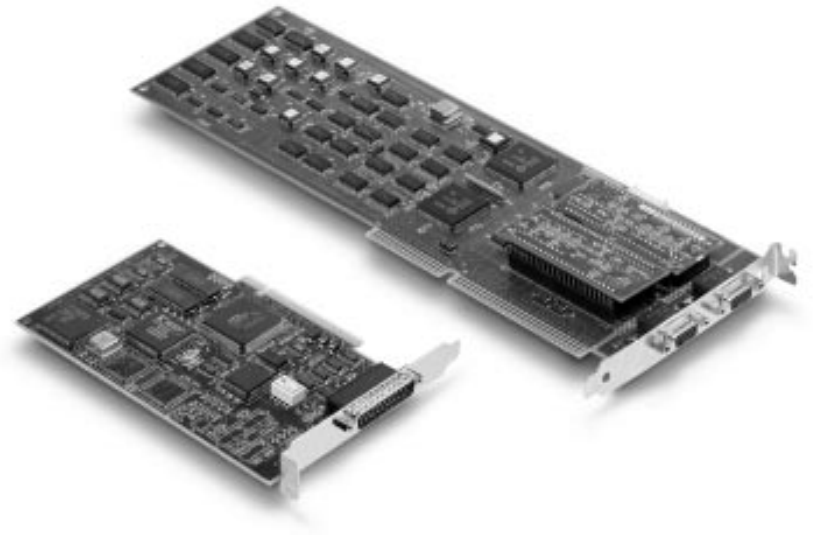
IBM Wide Area Connectors

Highlights

- ***Multiplatform WAN connectivity***
- ***Protocol-independent***
- ***Single-port PCI and dual-port ISA versions***
- ***Speeds from 1200 bps to 2.048 Mbps at full-duplex***
- ***Multiple electrical interfaces***
- ***Easy-to-implement solutions***
- ***Broad versatility***

Eliminate your COM port bottleneck

Install the latest IBM Wide Area Connector (WAC) adapter—PCI version—in any PC, workstation or server with a PCI-bus slot and you're ready to take advantage of the technology for ease of installation and faster data-transfer bus speeds than ever before. No matter what operating platform you're working on—IBM OS/2®, OS/2 Warp or Windows® NT®—the WAC adapter provides WAN connectivity with a broad area of application coverage for LAN applications that require remote, synchronous serial communications. The WAC PCI adapter provides the hardware and drivers to interface with communications applications for the solution to your needs.



Completely protocol-independent

The WAC adapter gives you the most direct and easiest migration path to higher speed communications to break the analog bottleneck. Connected to synchronous analog modems or DSUs/CSUs, it allows your stand-alone or networked systems to communicate with virtually any network. Many different business segments share common network requirements, such as:

- Connection of geographically diverse locations
- Maintenance of corporate LAN connections
- Access to databases or applications

Installed in a LAN-attached workstation, the WAC adapter can bridge or route to another LAN. It's a very cost-effective, convenient way to extend your existing network communications into a full-scale WAN.

The WAC adapters are available for both ISA- and PCI-bus systems, providing maximum flexibility. Whether you need the bandwidth of Switched-56 (SW-56) or raw speed, the WAC adapter delivers, depending on the interface used, from 1200 bps all the way up to ISA 2.048-Mbps capability—running at full-duplex.

Mix and match your choice of interfaces

You can connect almost any synchronous modem or DSU/CSU because the WAC adapter provides RS-232, V.35, X.21 or RS-422 interfaces. What's more, attaching the second, optional ISA port lets you use the combination of interfaces that best meets your needs, with cables and connectors furnished with the adapter. Therefore you can use your analog phone lines and simultaneously upgrade to the most advanced digital telecommunications methods, such as Dataphone Digital Service (DDS), SW-56 and various T-carrier offerings that include T1, E1 and Fractional T1.

Application software to make the most of WAC adapter capabilities

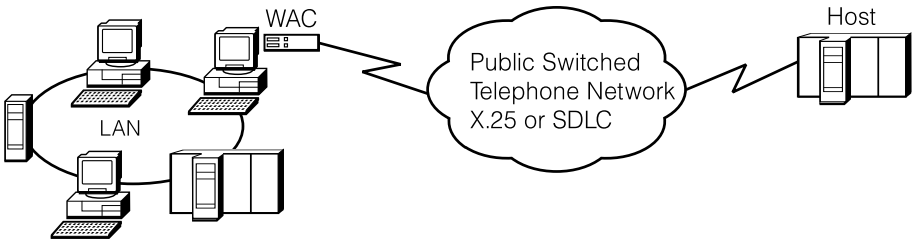
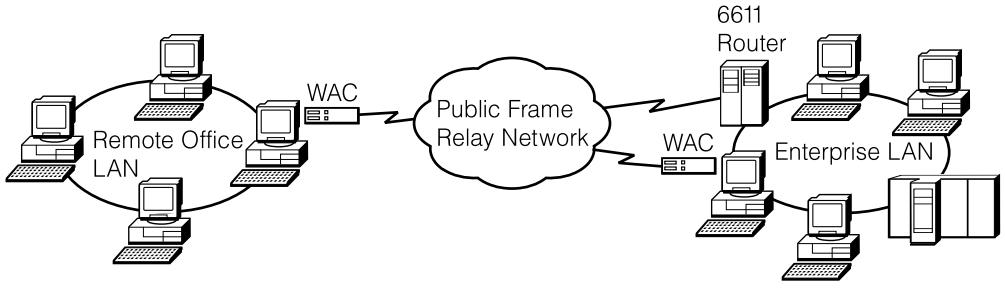
Compatible with all applications that support the IBM extensions to the 3Com/Microsoft® NDIS Version 2.01, the furnished device drivers provide protocol-independent WAN connectivity for a wide range of synchronous, bit-oriented protocols. But that's just the beginning.

The WAC adapter is designed for optimized performance with a growing line of application software packages that can give you complete and easy-to-implement telecommunications solutions. Among the offerings you can put right to work to reduce line costs and increase productivity are:

- Synchronous communication through the Communication Manager/2 protocol stack to communicate over a wide spectrum of applications via leased and switched lines
- LAN-to-LAN using IBM RouteXpander/2 access to Frame Relay, with options for source-routing and transparent bridging, X.25 switching and routing, Token-Ring bridging over Frame-Relay networks and point-to-point leased-line connections
- Microsoft BackOffice support over the WAC PCI for a suite of protocol support native to Windows NT users

IBM Wide Area Connector at a glance

Part numbers	85H7204: WAC/PCI (RS-232) 85H7205: WAC/PCI (V.35) 85H7206: WAC/PCI (RS-422) 85H7882: WAC/PCI (X.21) 33G8469: WAC/ISA (RS-232) 33G8470: WAC/ISA (V.35) 33G8472: WAC/ISA (RS-422) 33G8471: WAC/ISA (X.21) PTF WRO6150: Communications Manager/2 04H9900: RXR/2® V1.0 95G0897: RXR/2 V2.0 95G0912: X.25 RouteXpander/2 95G0909: RXR/2 Multiport support 95G0885: RXR/2 V1.01
Physical specifications	*WAC PCI* Height: 93.6 mm (3.7 in.) Width: 171.5 mm (6.7 in.) Depth: 15.0 mm (0.6 in.) Weight: 1 kg (2.2 lb) *WAC ISA* Height: 106.7 mm (4.2 in.) Width: 333.5 mm (13.1 in.) Depth: 15.2 mm (0.6 in.) Weight: 1.1 kg (2.4 lb)
Operating environment	Temperature: 10° to 40°C (10° to 104°F) Relative humidity: 8% to 80% Maximum wet-bulb temperature: 23°C (73°F) Power: receives power from the host system Certification: • PCI: FCC Class B, CE • ISA: FCC Class A, CE, BABT
Warranty	1 year
Installation information	*Software and operating systems* • OS/2 2.1 or higher • Windows NT Server+ V3.5 or higher • Adapter drivers included with the hardware *Application software* • IBM Communications Manager/2 V1.1 or higher • MPTS or LAPS program required for installing or configuring under OS/2 • Microsoft Windows NT SNA Server • IBM Frame Relay Token-Ring Bridge/DOS • IBM TCP/IP for OS/2 • IBM RouteXpander/2 *Hardware requirements* • PCI-capable desktop- or server-PC • PCI or ISA bus *System bay or slot* • PCI: Single port, half-size card • ISA: Full-size port *Customer setup*
Cables and connectors	*Interface-specific cables shipped with adapter* • RS-232 • V.35 • RS-422 • X.21 • Cables are 3 m (10 ft) in length.

Features	*Benefits*
LAN-to-remote host	*WAC and Communications Manager/2* Communicate with a wide variety of applications using a protocol stack for synchronous communication • Communications Manager/2 – X.25 communication and TCP/IP application support protocol stack – Leased- and switched-line support *Microsoft BackOffice (PCI)* Designed for corporate users SNA backbone connections TCP/IP leased connections 
LAN-to-LAN	*WAC and IBM RouteXpander/2* High-speed, economical access for remote workgroups with other workgroups and corporate offices such as: Travel agents Insurance agents Branch banks Retail stores • RouteXpander/2 V 1.01 – OS/2 for Frame-Relay access, source routing and transparent bridging – Multiprotocol routing functions – Supports TCP/IP, SNA/APPN®, NetBIOS and IPX • RouteXpander/2 V 2.0 – Functions of V 1.01 except for transparent bridging – Configurable to satisfy unique business requirements – Optional support for X.25 switching and routing functions and multiprotocol transport across an X.25 network – Optional support for multiple physical ports *WAC and IBM Frame Relay Token-Ring Bridge/DOS* Cost-effective, remote bridging solutions for connecting Token-Ring LANs over a Frame-Relay network • Frame-Relay Token-Ring • Bridges Token Rings over a Frame-Relay network Bridge/DOS V 1.0 – Point-to-point, Frame-Relay mode – Point-to-point, leased-line mode for direct connection 



What you get

All versions of the WAC adapter —PCI and ISA — offer broad versatility in linking diverse systems and networks.

The WAC PCI adapter is furnished complete with:

- 1-port PCI card for connection of 56-Kbps lines
- 3-m (10-ft) interface-specific cable
- 3.5-in. diskettes containing diagnostics and device drivers for OS/2 2.1 or higher and Windows NT 3.5 or higher
- Installation and user's manuals

The WAC ISA adapter is furnished complete with:

- 1 electrical interface board (EIB) for speeds of 1200 bps to 2.048 Mbps
- 3-m (10-ft) interface-specific cable
- Installation and testing instructions
- 3.5-in. diskettes containing diagnostics and NDIS MAC executable hardware device drivers for Windows NT and OS/2
- ISA technical reference (included on diskette)

For more information

To find out more about IBM Wide Area Connectors and other high-performance IBM communications and networking products, contact your IBM representative or call IBM Direct at 1 800 IBM-CALL (1 800 426-2255). You can also access the IBM Networking Home Page at http://www.networking.ibm.com.

Copies of this and other related product specification sheets can be obtained from the IBM FAX Information Service by dialing 1 800 IBM-4-FAX (1 800 426-4329) in the U.S. or Canada or by dialing (415) 855-4329 outside the U.S. and Canada and requesting the following document number: 5906.

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