Exceptional flexibility and capability in wireless LAN performance

IBM 2480 AS/400 Wireless LAN Token-Ring Access Point Model TR0

Highlights

- ***Provides Token-Ring wireless LAN connectivity***
- ***Includes a 2.4-GHz Direct-Sequence, Spread-Spectrum radio***
- ***Connects anywhere along a Token-Ring LAN***
- ***Real-time, transparent, wireless communication to host applications***
- ***Access point for communication with the available family of AS/400® Wireless LAN products, PC adapters and portable transaction computers (PTCs) using the 2.4-GHz radio***
- ***Configuration and firmware upgrades provided via Telnet/FTP in TCP/IP environments***

Demands of today's marketplace

Today's marketplace demands increased productivity, greater responsiveness to customers and a more profitable bottom line. For companies seeking both connectivity and freedom from the desktop, wireless LANs and wireless data-collection devices are the perfect solution.

First Token-Ring access point

Representing IBM's first wireless Token-Ring access point, the IBM 2480-TR0 was designed to provide exceptional flexibility and capability in wireless LAN performance. With its modular design, this Access Point shares the same industry-leading features as IBM Ethernet and RS-485 access points.

The device attaches to a wired Token-Ring LAN, operating on either 4- or 16-Mbps LAN segments that conform to IEEE 802.5. Each Access Point creates a cell of radio-signal coverage. Multiple units can be used to create multicell networks. The first Access Point attaches to the existing Token-Ring cabling, and additional access points can either be attached to the Token Ring or linked wirelessly, acting as repeaters. The Access Point is protocol-independent; therefore the software drivers utilized on the end user's workstation determine the operation of the workstation in the networking environment.



Radio technology

The Access Point uses a radio modulation technique known as direct-sequence, spread-spectrum transmission. This type of radio technology provides secure and highly reliable data communications. The radio in the device operates in the 2.4- to 2.4835-GHz band and complies with U.S. and Canadian regulations for license-free operation in that band.

Ideal product for multicell network

The device is the ideal product to create a multicell Token-Ring wireless network using mobile, handheld data collection devices and personal computers. Coupled with the power of the AS/400 or any host system, the Access Point creates an efficient and flexible wireless LAN environment. Roaming users remain connected to their host computers as they leave one radio cell and enter another. Users can create multi-building, indoor and outdoor, wireless networks, while providing mobile users seamless roaming and network management throughout the covered area.

For more information

For more information on IBM wireless products, contact your IBM representative or call IBM Direct at 1 800 IBM-CALL (1 800 426-2255). You can also obtain information from the IBM Wireless Headquarters Home Page at http://www.raleigh.ibm.com/wireless.

For a faxed copy of this document, access the IBM 4FAX system by dialing 1 800 IBM-4FAX (1 800 426-4329) and requesting item number 5903.

IBM wireless products are available through IBM distribution channels.

IBM 2480 AS/400 Token-Ring Access Point Model TR0 at a Glance

Machine type	2480 Model TR0
Features	• Compliant with the IEEE 802.2 standard at the 802.5 Token-Ring media access level • Radio characteristics - Up to 5 channels, user-selectable - 2.4- to 2.4835-GHz frequencies - Raw data bit rate of 1 or 2 Mbps, user-selectable Wireless LAN coverage is a function of antenna gain, placement and type as well as building construction and density; therefore a site survey is required to determine radio-frequency coverage and effective network configuration.
Dimensions	Height: 48 mm (1.9 in.) Width: 203 mm (8.0 in.) Depth: 165 mm (6.5 in.) Weight: 1.4 kg (3.0 lb)
Operating environment	Temperature: -20° to 50°C (-4° to 122°F) Power: 120 V ac, 60 Hz Certification: • FCC Part 15 as Class A computing device • FCC and DOC regulation for license-free operation in the 2.4-GHz band
Warranty	One year

Installation Information	
Software requirements	• For non-AS/400 environments, all 802.5 standard network software environments are supported. • When used with the integrated AS/400 Wireless LAN Adapter on an AS/400 host, use OS/400® V3.1 (or higher) to support the AS/400 LAN Adapter being used.
Hardware requirements	• Non-AS/400 environment: For existing Token-Ring LANs to support wireless personal computers, the 2480-TR0 Access Point communicates with any wireless PC adapter with a 2.4-GHz radio. • AS/400 environment: For networks that include wireless workstations only (not wireless portable transaction computers). - Requires any AS/400 Model DXX or later with the following: - AS/400 Token-Ring Adapter feature number 2619, 2626 or 2636 or - Token Ring-IOA (Adapter on MFIOP) feature number 7175 or - FSIOP feature numbers 6516-6519 and 6526-6529 or - 16/4 Token-Ring High Performance for Server Models feature number 9619 - For networks that include both wireless workstations and portable transaction computers: - Any AS/400 Model DXX or later, except D02 or E02, with AS/400 Wireless LAN Adapter feature numbers 2663 and 2668
Cables/connectors	• For STP: STP IBM type 1 cable with a DB-9 connector • For UTP: UTP IBM type 3 or higher cable with an RJ-45 connector



© International Business Machines Corporation 1996

IBM Corporation
Department DKMA
PO Box 12195
Research Triangle Park NC 27709

Printed in the United States of America
9-96
All Rights Reserved

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.

Copying or downloading the images contained in this document is expressly prohibited without the written consent of IBM.

® AS/400, IBM and OS/400 are registered trademarks of International Business Machines Corporation.

™ IBM Business Partner and LANStreamer are trademarks of International Business Machines Corporation.

All other company names or products are trademarks or registered trademarks of their respective companies.



Printed on recycled paper

G224-4517-00

