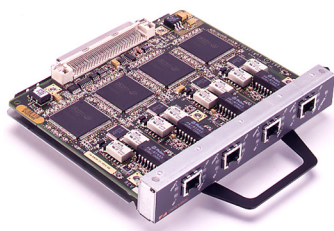


Cisco 7200 and 7500 Series Dedicated Token Ring Port Adapter

CISCO SYSTEMS HAS EXPANDED AND ENHANCED ITS TOKEN RING SOLUTION FOR CISCO 7200 AND 7500 SERIES ROUTERS WITH THE INTRODUCTION OF THE DEDICATED TOKEN RING PORT ADAPTER (PA-4R-DTR). THE DEDICATED TOKEN RING PORT ADAPTER OFFERS INCREASED FUNCTIONALITY, FLEXIBILITY, AND PERFORMANCE FOR TOKEN RING NETWORKS AT A VERY ATTRACTIVE PRICE PER PORT. THE NEW PORT ADAPTER OFFERS A BROAD RANGE OF CONNECTIVITY OPTIONS, FROM TRADITIONAL 4- AND 16-Mbps HALF-DUPLEX TOKEN RINGS TO DIRECT ATTACHMENT OF HIGH-SPEED, FULL-DUPLEX DEVICES SUCH AS SERVERS AND SWITCHES.

The Dedicated Token Ring Port Adapter



Features at a Glance

- Four Token Ring ports
 - High port density
 - Low cost per port
 - 4/16/32-Mbps transmission
 - Interoperable with existing half- and full-duplex Token Ring port adapters
 - Configurable in Token Ring concentrator mode for direct attachment of servers, switches, and stations
 - Increased bridging and routing performance
 - Fully integrated with Cisco router management tools for centralized network management
- Investment Protection, Flexibility, and Ease of Use

Network administrators who have installed Token Ring switches or who are considering adding switches to their networks should consider the Dedicated Token Ring adapter for its investment protection, flexibility, and ease of use.

 - Cisco 7200 and 7500 series routers use the same port adapters. This feature simplifies sparing and installation to improve serviceability and reliability and reduce overall maintenance and inventory costs, thereby lowering the total cost of network ownership while leveraging investment in Cisco's high-end routing technology.
 - Various operation modes with 4- or 16-Mbps speed, half- or full-duplex communication, and station or concentrator port operation gives flexibility to adapt to any customer configuration.
 - High port density conserves port adapter slots and results in low cost per port—the Cisco 7513 router can have up to 88 Token Ring ports.
 - Online insertion and removal (OIR) provides seamless upgrades to higher density and new port adapters without rebooting or taking the system off line. This feature makes the port adapter field-serviceable within seconds, minimizing downtime and impact on network availability.
 - Onboard LEDs provide at-a-glance status determination.
 - No baluns or media filters are needed for Type 1 shielded twisted-pair (STP) or Category 5 wiring.

Specifications

LED Indicators

The Enabled LED illuminates when all of the following conditions are met:

- The port adapter is enabled for operation and correctly connected.
- The port adapter is receiving power.
- The system contains a valid microcode version for the port adapter.

Each port has an Insert, 4/16 Mbps, C-port, and FDX LED:

- The INS LED is on when the interface is currently active and inserted into the ring (or when a DTR connection is active), off when the interface is not active or is not inserted into a ring.
- The 4/16 Mbps LED is on when the interface is operating at 16 Mbps, off when the interface is operating at 4 Mbps (default).
- The C-port LED is on when the port is configured as a concentrator, off when configured as a LAN station.
- The FDX LED is on when the port is operating in full-duplex mode, off when operating in half-duplex mode.

Network Management Support

This adapter supports the following Management Information Bases (MIBs):

- MIB for Network Management of TCP/IP-Based Internets: MIB-II (RFC 1213)
- Definitions of Managed Objects for Bridges (RFC 1493)
- Evolution of Interfaces Group of MIB-II (RFC 1573)
- Token Ring Extensions to the Managed Objects for Source Routing Bridges (RFC 1525)
- IEEE 802.5 Token Ring MIB (RFC 1748)
- SNMP Agent V1 (RFC 1155-1157)

Connectors and Cables

Shielded RJ-45 ports support both 150-ohm STP and 100-ohm unshielded twisted-pair (UTP). There is no need for external media filters; neither is there a requirement for baluns to do impedance matching for different cable types.



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