



IBM 8271 Nways Ethernet LAN Switch Models 524, 612, 624 & 712

**New high-performance,
cost-effective Ethernet
switching for the desk-
top, workgroup or cam-
pus LAN**

**Based on state-of-the-art
application-specific
integrated circuits
(ASICs)**

**Standard 10BASE-T and
100BASE-TX ports via RJ-
45 connectors**

**One model with 10/100-
Mbps auto-detect ports**

**Optional 100BASE-TX,
100BASE-FX or 155-Mbps
ATM OC3c uplink port**

**SNMP management, in-
band or out-of-band,
locally or remotely**



General description

The new IBM 8271 Nways Ethernet LAN Switch Models 524, 612, 624 and 712 are the latest additions to the popular family of Ethernet switches available from IBM. These new switches, based on ASIC technology, are the most cost-effective means available for extending the benefits of LAN switching to the user's desktop. Any size business can upgrade its workgroup or campus LANs to relieve existing Ethernet LAN congestion. With the integrated Fast Ethernet and optional ATM modules that provide connections to high-speed backbones, the new switches offer an extremely attractive, cost-effective, scalable enhancement to Ethernet networks of any size.

These new 8271 switches offer support for FDX communications on the high-speed ports, cut-through switching, store-and-forward switching, virtual LANs (VLANs), Spanning Tree protocol, SNMP, BootP initialization and a local EIA 232 port for out-of-band management. And the new switches provide integrated RMON for seven of the nine standard groups, Intelligent Flow Management to minimize packet loss and Resilient Links to bypass failed links and prevent network downtime. The switches come fully loaded with all the software necessary for Plug and Play installation.

Hot buttons

- Extension of network bandwidth for data-intensive applications such as multimedia, CAD and client/server
- Expansion of Ethernet capacity through optional module slots
- Automatic sensing and automatic configuring of LAN connection types and power input for ease of use
- Improved server throughput and congestion relief with 100BASE-T full-duplex operation
- Increased LAN segmentation through interconnectivity of multiple IBM Ethernet LAN switches
- Support for RMON remote network management via SNMP
- Java-based management for integrated management of all IBM networking products

IBM versus the competition

- Bay Networks BayStack 301 and 302
 - Missing advanced functions like intelligent switching, VLANs, resilient links
 - No ATM uplinks
 - No RMON
- Bay Networks Model 2216T
 - Missing advanced functions like intelligent switching, VLANs, resilient links
 - No ATM uplinks
- Cisco Catalyst 1900
 - Missing advanced functions like intelligent switching, VLANs, resilient links
 - No ATM uplinks

- Cisco Catalyst 2820
 - Missing advanced functions like intelligent switching, VLANs, resilient links
 - No ATM uplinks (planned)
- Cisco Catalyst 3000 and 3100
 - Missing advanced functions like VLANs, resilient links
 - Intelligent switching (adaptive cut-through) support is from IBM



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Reasons to choose the IBM 8271 Nways Ethernet LAN Switch

- High performance at lower cost where bridge or router technologies are not required
- A staged path to better performance through incremental changes that address both immediate and long-range performance challenges
- SNMP-based management
- Device management via generic Java-based element managers and RMON management when using IBM Nways Workgroup Manager for Windows NT V 1.1 and Nways Manager for AIX V 1.2
- Investment protection through interoperation with existing IEEE 802.3 Ethernet adapters, hubs and other components

Ordering information

<i>8271 Model</i>	<i>Part number</i>	<i>LAN ports</i>
524	02L1322	Twenty-four 10BASE-T (for connecting 1 workstation to each port), one 100BASE-TX, 1 optional 100BASE-TX or -FX or ATM OC3 155-Mbps
612	86H2793	Twelve 10BASE-T (for workstation or hub connectivity), one 100BASE-TX, 1 optional 100BASE-TX or -FX or ATM OC3 155-Mbps
624	86H2794	Twenty-four 10BASE-T (for workstation or hub connectivity), one 100BASE-TX, 1 optional 100BASE-TX or -FX or ATM OC3 155-Mbps
712	86H2797	12 auto-sensing 10BASE-T/100BASE-TX, 1 optional 100BASE-TX or -FX or ATM OC3 155-Mbps

NOTE: all integrated 10BASE-T and 100BASE-TX ports are configured as MDI-X with shielded RJ-45 connectors.

<i>Optional features</i>	<i>Feature code</i>	<i>Part number</i>
100BASE-TX Uplink Module	1340	02L1340
100BASE-FX Uplink Module	1345	02L1345
155-Mbps ATM Uplink Module	1330	02L1330

For more information

Visit the IBM Networking Home Page at www.networking.ibm.com.