IBM vs Cisco Competitive Analysis - 2210/2216 Part 2

Raj Rajan Competitive Marketing (919)-486-2351 (8-526-2351) (RAJAN @Ralvm6) (rajr @ vnet.ibm.com) 05/97

IBM Networking Hardware Division

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Router Cover Part 2

2210 Nways Multiprotocol Router

Price / performance leadership for Remote Access

Streamlined Design

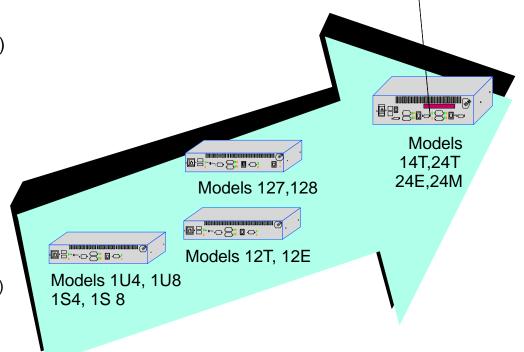
- Single Logic Planar (25 33 MHz)
- Universal Power Supply
- Rack Mountable
- Adapter slot on larger models

Packaging Options

- Plug & Play with EasyStart
- Flexible Memory Choices
- Preloaded Software

Feature Rich

- All Serial Ports support
 - EIA 232/V.24 (4.8Kbps 19.2Kbps)
 - V.35, V.36 (9.6Kbps 2.048Mbps)
 - X.21 (2.4Kbps 2.048Mbps)
 - SDLC
 - Frame Relay, PPP, X.25
 - V.25bis Dial Capabilities
- LAN Port (Ethernet and Token Ring) is Model Dependent
- ISDN BRI (2B+D) provides dial-on-demand and dial backup



Great Performance

Two Data Communications Magazine Top Performers: 2210 (\$5,500) and Cisco 4700 (\$21,000)

- "The IBM 2210 ...approached the 3,000 DLSw session mark...offers excellent value for money"
- "The 2210 really shines, handling data-center loads at a branch-office price."
- "The 2210 also turned in nearly flawless bscores in our prioritization tests, coming closer than any other router to hitting our target bandwidth utilization levels."

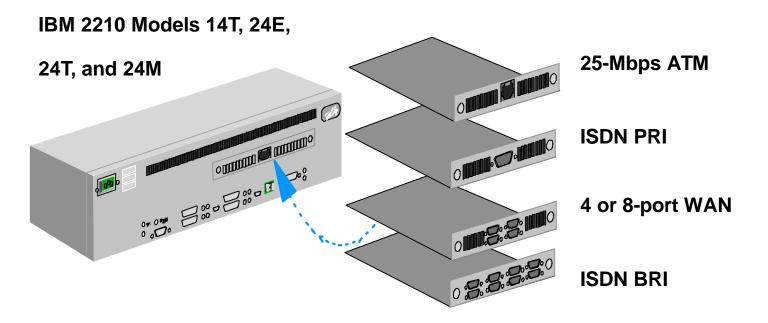
2210 also better performer than Cisco 2500

- **15,000 pps vs. 8,000 pps**
- 25 MHz and 33 Mhz processors vs. 20 MHz



5/97 2210 Performance

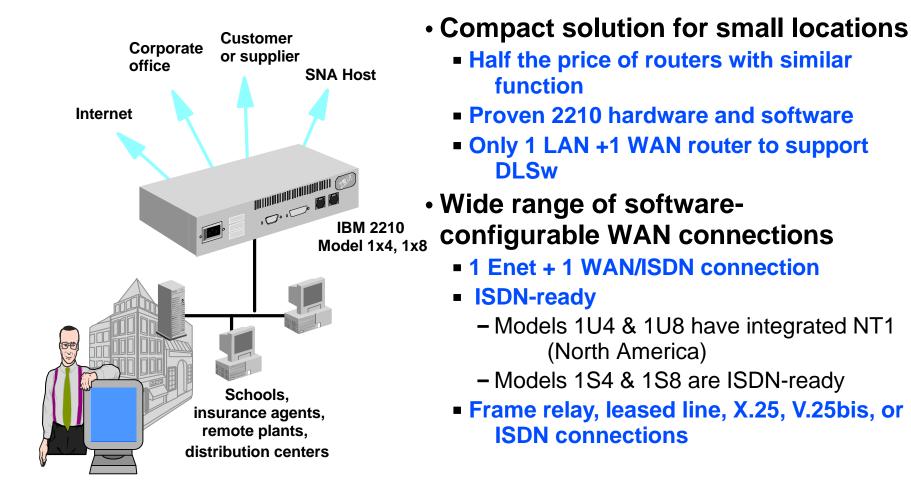
Flexible growth options



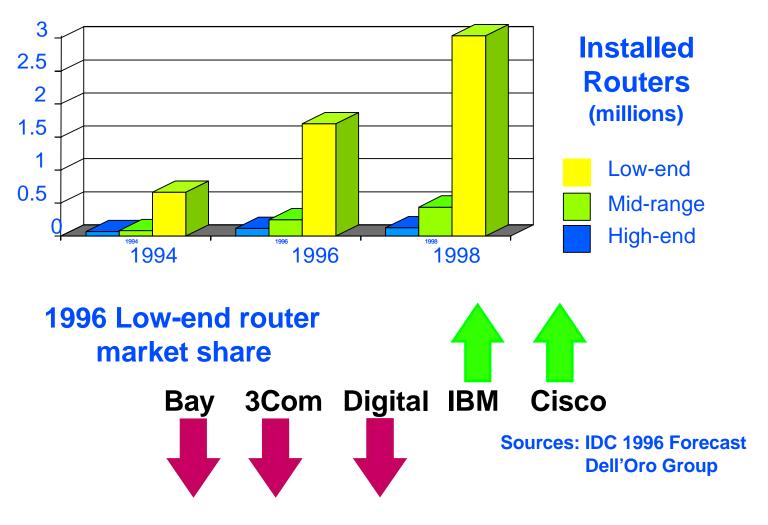
Only Primary ISDN at low 2210 price Only wide area connections for 25-Mbps ATM workgroups Meet future requirements by changing adapters

5/97 Flexible Growth Options

New 2210 entry point models

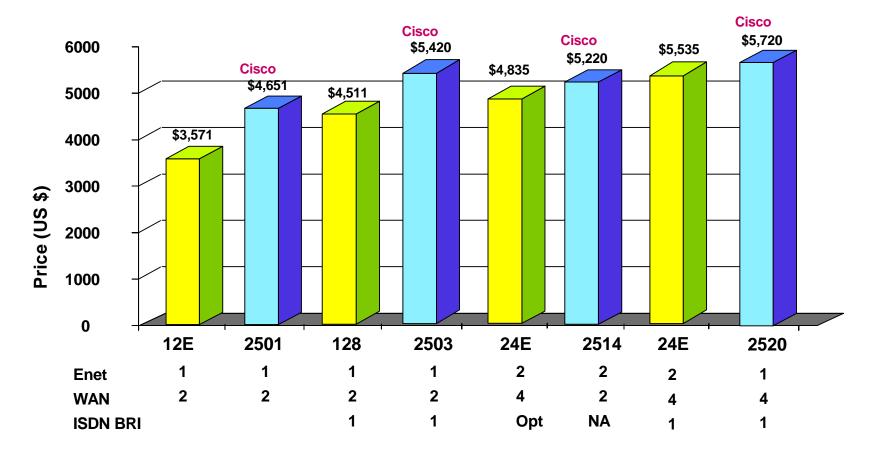


5/97 New entry models ..



5/97 Fast Growing

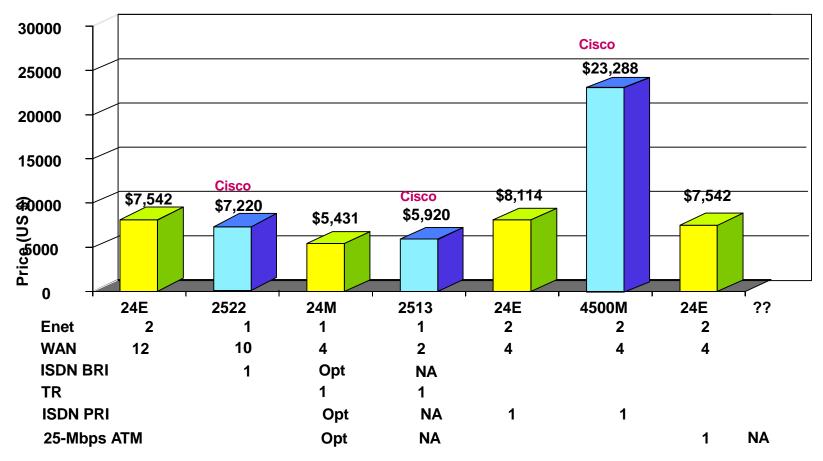
Branch & Regional Office Comparison



List prices include additional 4MB DRAM (IBM) and 4 MB flash (cisco); Base+Additional (2210), Desktop (cisco); 3 years maintenance allowing for warranty. CISCO prices as of 2/1997.

5/97 Branch & Regi. Off. Comp

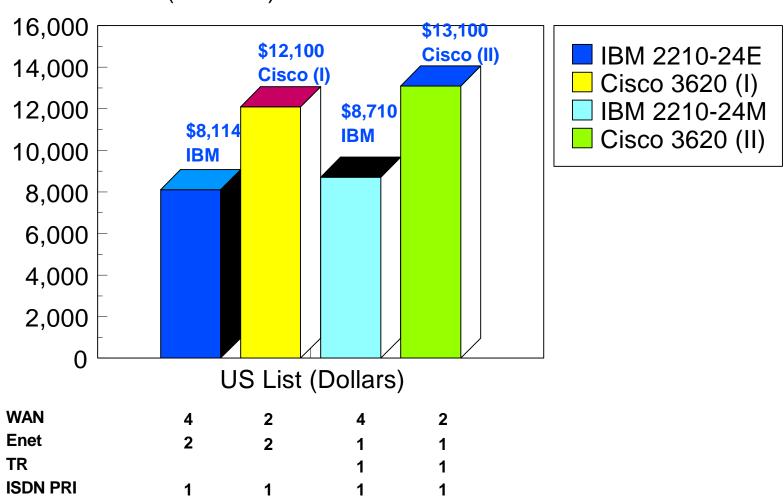
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5/97 Branch & Reg. Off. Comp......

Price comparison of IBM 2210 vs Cisco 3600

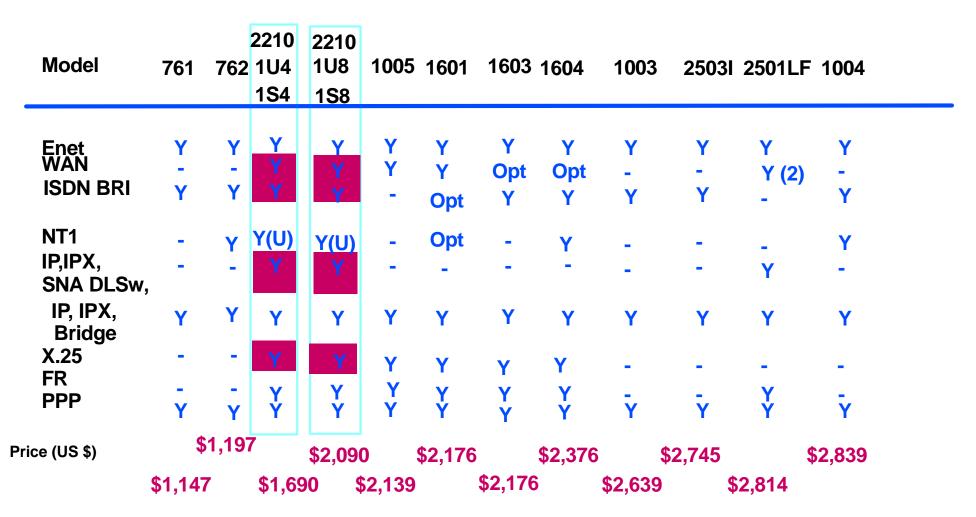


US List Price (Dollars)

Note : Prices include 3 Year maintenance; Cisco prices as of February 1997

5/97 Comp Cisco 3600

Small Office Comparison



List prices include 3 years maintenance allowing for warranty. CISCO prices as of 2/1997

5/97 Small Office Comparison

Best price / performance

Money-saving features

- Bandwidth management lowers connection cost
- Installation/configuration tools reduce staffing
- Includes functions that others charge for
 - Advanced APPN/HPR software included
 - Saves \$1,900 compared with Cisco 2500
- One-year warranty, not 3 months

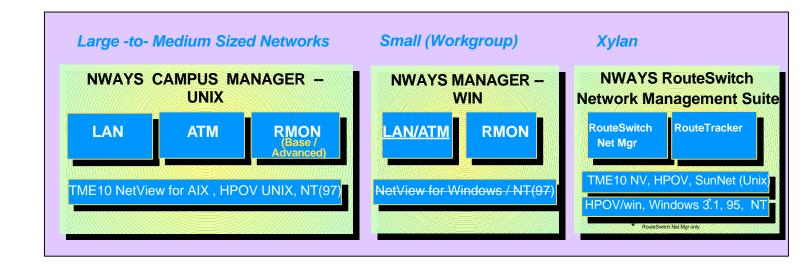
"Future-proof" models preserve customer investment No release-to-release price increases Aggressive pricing for full-function solution

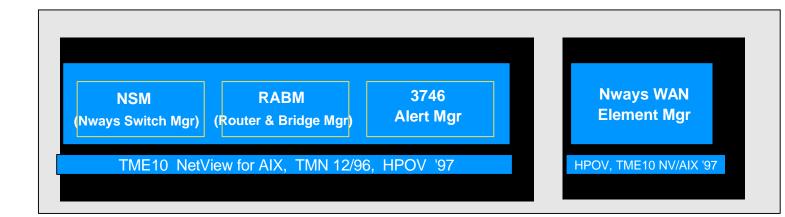
Attractive price--entry through high-end

Nways Manager Product Positioning

	Network Management Applications	Nways Managers
	Network Management Platforms	TME 10 NetView, HP OpenView
	Operating Systems	AIX, HPUX, SunOS, Win 3.x/95/NT
Network Management Station	Hardware Platforms	Risc6000, HP, SUN, PC,

Network Management Products



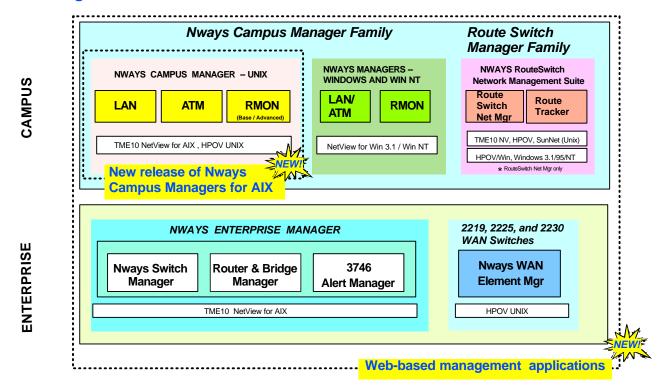


ENTERPRISE

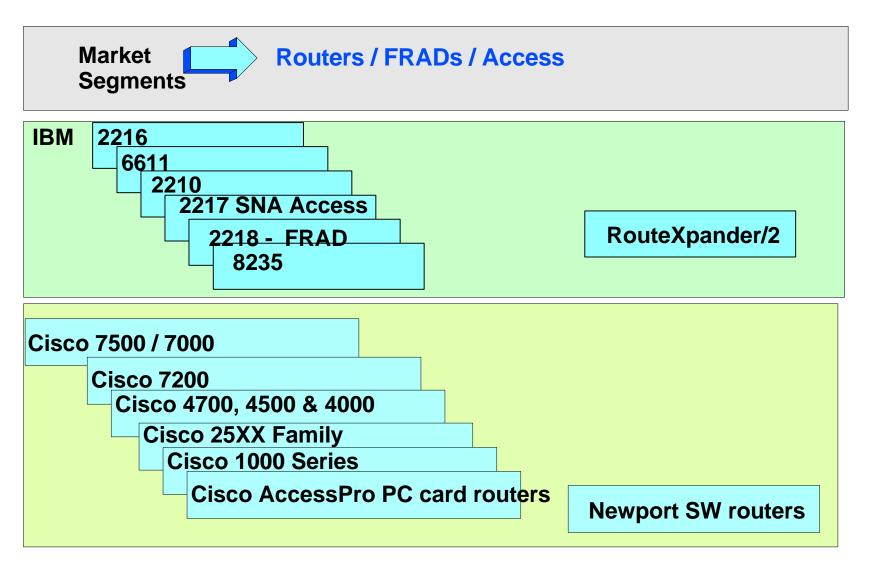
5/97 Nways Management Products

Nways Manager Previews

- Advanced traffic monitoring will let you make decisions based on a total view of the network and applications
- Web-based management will turn every authorized browser into a management console

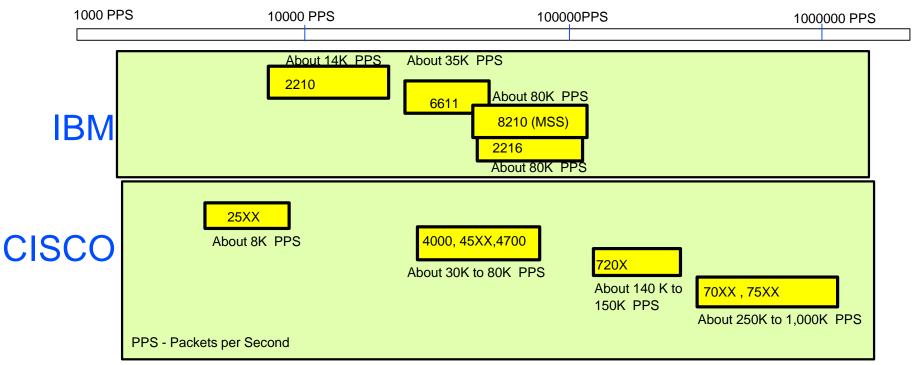


Product / Market Coverage - Core & Access



IBM/Cisco - Product Coverage

Cisco/IBM Access Product 5/97



Market positioning of Cisco & IBM router products

Key Observations:

- → In general, PPS comparisons are of little value real customer networks
- ➡ These are simplistic measurements of box throughput and when network services like filtering, encryption ... (required in most networks), these numbers drop considerably.
- ➡ With the networking industry trending towards a switching infrastructure for high performance requirements, the need for large routers is extensively diminished
- ➡ IBM can provide very effective routing and switching solutions for most of our Customer needs with our switching products and award winning Multi-protocol Switched Services (MSS)

Solutions to meet customer networking requirements

