4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED
AT&T Global Business Communications Systems Visual Communications Market Group 211 Mt. Airy Rd Basking, Ridge, NJ 07920 Contact: Linda Canulette (908) 658-6908	AT&T MultiPoint Control Unit (MCU) Models: DX, FX, EX - Customer Premises GS - Service Provider	Voice: G.711/G.728 G.711 (PCM) Audio Add-on Circuit-Data: "Px64" Simultaneous active calls: 24 @ 112/128 Kbps 24 @ H0 (384 Kbps) Uses 1 DN and SPID or 2?
NI-1 Date:	Price:	Bandwidth Options: 112/128 Kbps H0 (384 Kbps) Bonding?
NI-2 Date:	FCC Class:	
Video/Audio Coding: H.261/G.711 and G.728 Video Interfaces:	Multimedia Interfaces: Px64	ISDN Interface: PRI (AT&T, ETSI and NI-2) Power:
	NIIGs: 14	NIPGs:

Additional Features:

ISDN PRI
- AT&T, ETSI & NI-2
- Multi-rate; (N x 64)
- H0 (384 Kbps)
- NFAS

Full Px64 compliance
Advanced Conferencing Modes
Voice Activated Switching
Chair Control

Cascading
T1 Robbed-Bit Signaling
Audio Add-On
MCU Dial-Out
Meet-me (dial-in)
24 Videoports
Notification Tones
Dynamic Trunk Allocation
Dynamic Conference Resizing
Choice of AC or DC power
Built-In 24 hour Scheduling Capability
Optional: AT&T Conference Reservation System (PC-Based)

4.2.9 Videoconferencing systems and multipoint control units

<table>
<tr><th>COMPANY NAME</th><th>PRODUCT NAME</th><th colspan="2">CALLS SUPPORTED</th></tr>
<tr><td rowspan="4">AT&T
Global Business
Communications Systems

211 Mt. Airy Road
Basking Ridge, NJ 07920

Taya Harmon
(908) 658-7449</td><td rowspan="4">Telemedia
Connection Model 70</td><td>Voice</td><td>Yes</td></tr>
<tr><td>Circuit-Data</td><td>Two Channels</td></tr>
<tr><td>Simultaneous active calls</td><td>Two</td></tr>
<tr><td>Uses 1 DN and SPID or 2?</td><td>One</td></tr>
<tr><td>NI-1 Date: Now</td><td>Price: $6,995</td><td>Bandwidth Options:</td><td>112/128 Kbps</td></tr>
<tr><td>NI-2 Date: 2Q94</td><td>FCC Class: A, B</td><td>Bonding?</td><td>No</td></tr>
<tr><td>Video/Audio Coding:</td><td>Multimedia Interfaces:</td><td>ISDN Interface:
Power:</td><td>BRI - S/T
Local</td></tr>
<tr><td>Video Interfaces: NTSC</td><td>NIIGs: 14</td><td colspan="2">NIPGs:</td></tr>
<tr><td colspan="4">Additional Features:</td></tr>
</table>

4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED
Compression Labs, Inc. 2860 Junction Avenue San Jose, CA 95134 David Sauerhaft Tel: (408) 428-6759 Fax: (408) 922-5429	Cameo Personal Video	Voice: One Channel Circuit-Data: One Channel Simultaneous active calls: Two Uses 1 DN and SPID or 2?: Either
NI-1 Date: Now	Price: $2,095	Bandwidth Options: BRI Bonding?
NI-2 Date:	FCC Class: B	
Video/Audio Coding: G.711, PV2	Multimedia Interfaces:	ISDN Interface: Power:
Video Interfaces: NTSC, PAL, SECAM	NIIGs: 15	NIPGs:

Additional Features:

Video conferencing on a personal computer
Desktop video conferencing: 15 fps, 128 x 112 pixels, color, window fully sizable by user
Integrated file snapshot, and screen transfer. High resolution mode for input of graphics.

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4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED
Compression Labs, Inc. 2860 Junction Avenue San Jose, CA 95134 Tel: 1-800-CALL-CLI Fax: (408) 922-5429	eclipse	Voice Circuit-Data: One or Two Channels Simultaneous active calls: Two Uses 1 DN and SPID or 2?: Either
NI-1 Date: Now	Price: Starts at $19,900	Bandwidth Options: 56, 64, 112, 128 Bonding?
NI-2 Date:	FCC Class: A	
Video/Audio Coding: H.261, GTX, G.711, G.728	Multimedia Interfaces: Std. Document Camera	ISDN Interface: S/T Power: 110V or 220V
Video Interfaces: Three Inputs, Two Outputs	NIIGs:	NIPGs:

Additional Features:

Roll-About Cart
Self-Guide User Interface
Picture-in-Picture (Moveable)
Still-Frame Graphics
GraphiCam Document Camera
Autofocus Pan/Tilt/Zoom Camera
Camera Presets
Multipoint Ready
Integrated ISDN or Switched 56 Interface
On Screen Messages with Help Function
Full Duplex Audio with Echo Cancellation
Optional VCR

4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED
DataBeam Corporation 3191 Nicholasville Road Lexington, KY 40503 Pete Gammon (606) 245-3500	CT Series (CT 250, CT 500, CT 1000)	Voice Circuit-Data Simultaneous active calls Uses 1 DN and SPID or 2?
NI-1 Date:	Price: Starting at $10,000	Bandwidth Options:
NI-2 Date:	FCC Class:	Bonding?
Video/Audio Coding:	Multimedia Interfaces:	ISDN Interface: Power:
Video Interfaces:	NIIGs:	NIPGs:

Additional Features:

DataBeam CT Series (CT 250, CT 500, CT 1000) are interactive, high resolution document conferencing systems that transmit and display black and white or color images and text in a multipoint meeting. Text or photographic images for your conference can be scanned from a hard copy or computer generated and imported. Users can mark-up documents using the electronic pen and white board features; all sites receive the modifications simultaneously in real-time and can print a hard copy within seconds.

4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED
EYETEL Communications, Inc. Ste. 206-267 West Esplanade North Vancouver, BC Canada V7M 1A5 Tel: (604) 984-2522 Fax: (604) 984-3566	EyeTel Communicator III	Voice Circuit-Data Simultaneous active calls Uses 1 DN and SPID or 2?
NI-1 Date: Use TA	Price:	Bandwidth Options: 56 Kbps to 2.048 Mbps Bonding?
NI-2 Date:	FCC Class:	
Video/Audio Coding: H.261; NTSC or PAL G.711	Multimedia Interfaces:	ISDN Interface: Power:
Video Interfaces:	NIIGs:	NIPGs:

Additional Features:

Full Motion - Plus turns the PC into a video telecommunications workstation. Now, users can send full color, high resolution images from virtually any source (video, still camera, PC screen, etc.) to another user's computer screen while they are conducting a full motion video teleconference.

Users can "cut and paste" documents from any Windows application, including spreadsheets, graphics and word-processing programs, and transmit these along with other visual images. These items are transmitted in seconds, while the full motion videoconference is simultaneously being conducted. Both parties can "free-hand" sketch their comments (using a mouse), and make changes interactively, in real time!

4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED	
Hitachi America LTD. 3617 Parkway Lane Norcross, GA 30092 Contact: Frank Banks (404) 242-1410	CA-200	Voice	Supports voice - only mode
		Circuit-Data	Operates in this mode for video-conferencing
		Simultaneous active calls	2
		Uses 1 DN and SPID or 2?	Yes
NI-1 Date: Now	Price: $13,900	Bandwidth Options:	56, 64, 112, 128
NI-2 Date:	FCC Class: A	Bonding?	No
Video/Audio Coding: CCITT H.261, G.711	Multimedia Interfaces: RS-232, Audio I/O, FAX G3	ISDN Interface: Power:	S/T PS2
Video Interfaces: 2 RCA NTSC IN 2 RCA NTSC OUT	NIIGs: 2,3,4,14	NIPGs:	
Additional Features:			

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4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED	
Hitachi America LTD. 3617 Parkway Lane Norcross, GA 30092 Contact: Frank Banks (404) 242-1410	DP-200	Voice	Supports voice - only mode
		Circuit-Data	Operates in this mode for video-conferencing
		Simultaneous active calls	2
		Uses 1 DN and SPID or 2?	Yes
NI-1 Date: Now	Price: $14,900	Bandwidth Options:	56, 64, 112, 128
NI-2 Date:	FCC Class: A	Bonding?	No
Video/Audio Coding: CCITT H.261, G.711	Multimedia Interfaces: RS-232, Audio I/O, FAX G3	ISDN Interface: Power:	S/T PS2
Video Interfaces: 2 RCA NTSC IN 2 RCA NTSC OUT	NIIGs:	NIPGs:	None
Additional Features: Includes integrated 11" monitor			

4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED
ISCOM 6103 Baltimore Avenue, 205 Riverdale, MD 20737 Phone/FAX: (301) 779 - 1368	Videoconference for ISDN and SW56 based on a PC platform	Voice: Yes Circuit-Data: Yes Simultaneous active calls: 2 Uses 1 DN and SPID or 2?: 1
NI-1 Date: Nov 1992	Price: $8,590 with PC included	Bandwidth Options: FST
NI-2 Date: 1994	FCC Class: A, B	Bonding? No
Video/Audio Coding: FST	Multimedia Interfaces:	ISDN Interface: S/T Power: PC Bus
Video Interfaces: Two NTSC One S-Video	NIIGs: 14	NIPGs: 1, 6, 9, 10

Additional Features:

- One channel for audio
- One channel for video (ISDN or SW56)
- International calls

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4.2.9 Videoconferencing systems and multipoint control units

<table>
<tr><th>COMPANY NAME</th><th>PRODUCT NAME</th><th colspan="2">CALLS SUPPORTED</th></tr>
<tr><td rowspan="4">VTEL
108 Wild Basin Road
Austin, TX 78746

1-(800) 856 - 8835

(512) 314-2700</td><td rowspan="4">DeskMax</td><td>Voice</td><td></td></tr>
<tr><td>Circuit-Data</td><td>Two Channels</td></tr>
<tr><td>Simultaneous active calls</td><td>Two</td></tr>
<tr><td>Uses 1 DN and SPID or 2?</td><td>Either</td></tr>
<tr><td>NI-1 Date: 4Q 93</td><td>Price:</td><td>Bandwidth Options:</td><td>56 kbps-384 kbps</td></tr>
<tr><td>NI-2 Date: 2Q94</td><td>FCC Class: Class A</td><td>Bonding?</td><td>Yes, with external IMUX</td></tr>
<tr><td rowspan="2">Video/Audio Coding:
Video - H.261 (FCIF or QCIF)
Audio - G.711, G.722, G.728</td><td rowspan="2">Multimedia Interfaces:

Optional document camera</td><td>ISDN Interface:</td><td>S/T Basic Rate</td></tr>
<tr><td>Power:</td><td>External</td></tr>
<tr><td>Video Interfaces:</td><td>NIIGs:
3,4,14,15,17</td><td>NIPGs:</td><td>6</td></tr>
<tr><td colspan="4">Additional Features:

• Desktop 486 Computer
• Windows user interface
• 14 inch SVGA monitor
• Includes high resolution, color CCD camera
• Can participate in multiway conferences
• Optional document camera

DeskMax Product Manager: Steve Sperle, VTEL Corp. (512) 314-2839</td></tr>
</table>

4.2.9 Videoconferencing systems and multipoint control units

COMPANY NAME	PRODUCT NAME	CALLS SUPPORTED	
Zydacron, Inc. 670 Commercial Street Manchester, NH 03101 (603) 647-1000	INTERVu II Video Teleconferencing Codec	Voice Circuit-Data Simultaneous active calls Uses 1 DN and SPID or 2?	One Channel One Channel Two Two
NI-1 Date: Supports NI-1 today	Price: $8,000.00 Includes: BRI or V.35/RS366	Bandwidth Options:	1 x 56Kbps/64Kbps 2 x 56Kbps/64Kbps
NI-2 Date: 1Q 1994	FCC Class: A	Bonding?	No, It is H.221 compliant
Video/Audio Coding: H.261, H.221, G.711, G.722, G.728	Multimedia Interfaces: 1 - stereo out MCI ™ Digital Video API, 3 - stereo in	ISDN Interface: Power:	S/T From Bus
Video Interfaces: VGA-Windows ™ overlay, or NTSC/PAL	NIIGs: 2,3,4,14	NIPGs:	None

Additional Features:

- INTERVu II board set plugs into any ISA Standard PC
- Fully compliant with CCITT H.320, providing H.261 (P*64) full CIF (352x288 @ 15fps) video teleconferencing.
- CCITT H.320, H.221, H.230, H.231, H.233, H.242, H.243, H.261
- Audio Compliance: G.711, G.722, G.725, G.728
- Full duplex speakerphone interface with -60 db echo cancellation
- 16 Bit color display
- 30 fps @ QCIF 176x144
- Windows™ 3.1 interface
- Resizable video window with graphic overlays on VGA/SVGA
- API support for Windows™ MCI (Media Control Interface)
- High speed data transfer
- Multimedia support: 3xvideo in NTSC/PAL, 3xAudio in stereo
- Video output: VGA/SVGA or NTSC/PAL, Audio output: Stereo

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