## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| AT&T<br>263 Sherman Blvd.<br>Naperville, IL 60566-7050<br>Don Ziemann<br>(708) 713-7039 | 7506 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes<br>Simultaneous active calls: One Voice & One Data |
| NI-1 Date: Now | Price: contact distributor for current price | |
| NI-2 Date: 1994 | FCC Class: | Uses 1 DN or 2? One |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | 2 x 24 | Async | | X.25 Term. Support | Yes |
| | | • V.120 | Yes, 38.4 | | |
| Speaker Phone? | Yes | • Other | DMI 57.6 | Async PAD | Yes |
| Feature Keys? | 17 | Synch | | Sync PAD | |
| Analog Interface | | • V.120 | | Logical Channels | |
| | | • Other | | **B CHANNEL PACKET** | |
| Data Interface | RS-232 | | | | |
| ISDN Interface | S/T | 56/64 kbps | Yes | X.25 Term. Support | No |
| Power Interface | PS1 & PS 2 | 112/128 kbps | | Async PAD | |
| Self-Initializing? | Yes | Bonding? | | Sync PAD | |
| NIIGs: | 2,3,4,6,7,8,21 | Stores Calling Number? | Yes | Logical Channels | |
| NIPGs: | 1,2,3,4,5,7 | Dialing Modes: | AT&T CMD, Hayes AT | APIs Supported: | |

Additional Features:

- Includes 2 x24 display with 17 programmable call appearance and feature keys
- Includes message waiting lamp and a speaker phone and personalized ringing
- Includes self test and line diagnostics
- Supports AT&T CMD command set and the AT command set and an Application Programming Interface
- Supports asynchronous data up to 57.6 Kbps
- Includes PAD for D channel Packet Mode calls
- Supports V. 120 and DMI Modes 2 & 3 rate adaption and will provide automatic selection for incoming CMD or PMD calls.

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| AT&T<br><br>263 Sherman Blvd.<br>Naperville, IL 60566-7050<br><br>Don Ziemann<br>(708) 713-7039 | 7507 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes<br>Simultaneous active calls: One Voice & One Data |
| NI-1 Date: Now | Price: contact distributor for current price | |
| NI-2 Date: 1994 | FCC Class: | Uses 1 DN or 2?: One |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | 2 x 40 | Async | | X.25 Term. Support | Yes |
| | | • V.120 | Yes, 38.4 | | |
| Speaker Phone? | Yes | • Other | DMI 57.6 | Async PAD | Yes |
| Feature Keys? | 17 | | | | |
| | | Synch | | Sync PAD | |
| Analog Interface | | • V.120 | | Logical Channels | |
| | | • Other | | | |
| Data Interface | RS-232 | | | **B CHANNEL PACKET** | |
| ISDN Interface | S/T | 56/64 kbps | Yes | X.25 Term. Support | No |
| Power Interface | PS1 or PS 2 | 112/128 kbps | | Async PAD | |

| | | |
|---|---|---|
| Self-Initializing? Yes | Bonding? | Sync PAD |
| NIIGs: 2,3,4,6,7,8,21 | Stores Calling Number? Yes | Logical Channels |
| NIPGs: 1,2,3,4,5,7 | Dialing Modes: AT&T CMD, Hayes AT | APIs Supported: |

Additional Features:

- Includes 2 x40 display with 39 programmable call appearance and feature keys
- Includes message waiting lamp and a speaker phone and personalized ringing
- Includes self test and line diagnostics
- Supports AT&T CMD command set and the AT command set and an Application Programming Interface
- Supports asynchronous data up to 57.6 Kbps
- Includes PAD for D channel Packet Mode calls
- Supports V. 120 and DMI Modes 2 & 3 rate adaption and will provide automatic selection for incoming CMD or PMD calls.

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Cortelco, Inc.<br><br>4119 Willow Lake Blvd.<br>Memphis, TN 38118<br><br>Mary S. Towey<br>(901) 365-7774 | Cortelco<br>30 Button<br>ISDN Set | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls: One Voice & One Data |
| NI-2 Date: First Q'94 | FCC Class: B | Uses 1 DN or 2? Two |
| VOICE AND DISPLAY<br>Display: 2 x 24 or 4 x 40<br>Speaker Phone? Yes<br>Feature Keys? 30/78<br>Analog Interface: No<br>Data Interface: RS-232/V.35 | CIRCUIT DATA<br>Async<br>• V.120: Yes<br>• Other: T-Link<br><br>Synch<br>• V.120: Yes<br>• Other | D CHANNEL PACKET<br>X.25 Term. Support: Yes<br>Async PAD<br>Sync PAD: Yes<br>Logical Channels<br><br>B CHANNEL PACKET |

| | | | | | |
|---|---|---|---|---|---|
| ISDN Interface | S/T & U | 56/64 kbps | Yes | X.25 Term. Support | No |
| Power Interface | PS 2 | 112/128 kbps | No | Async PAD | |
| Self-Initializing? | Yes | Bonding? | No | Sync PAD | |
| NIIGs: | 1-13 | Stores Calling Number? | Yes | Logical Channels | |
| NIPGs: | 1-7 | Dialing Modes: | | APIs Supported: | |

Additional Features:

- 30 button models with optional 48 add on button module
- Self initializing; speed dial; speaker phone with group listen; date & time; display incoming call info; auto answer; local speed dial; Hot Dial Pad;
- Integrated NT-1 with 30 button set
- Data package now available
- Supports all NI-1 terminal modes
- 2 x 24 or 4 x 40 display

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Cortelco, Inc.<br><br>4119 Willow Lake Blvd.<br>Memphis, TN 38118<br><br>Mary S. Towey<br>(901) 365-7774 | Cortelco<br>18 Button<br>ISDN Set | Voice | One Channel |
| | | Circuit-Data | One Channel |
| | | B Channel Packet | No |
| | | D Channel Packet | Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls | One Voice & One Data |
| NI-2 Date: First Q'94 | FCC Class: B | Uses 1 DN or 2? | Two |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | 2 x 24 | Async | Yes | X.25 Term. Support | Yes |
| | | • V.120 | Yes | | |
| Speaker Phone? | Yes | • Other | T-Link | Async PAD | |
| Feature Keys? | 18/64 | | | | |
| | | Synch | | Sync PAD | Yes |
| Analog Interface | No | • V.120 | Yes | Logical Channels | |
| | | • Other | | | |

| | | | | B CHANNEL PACKET | |
|---|---|---|---|---|---|
| Data Interface | RS-232/V.35 | | | | |
| ISDN Interface | S/T | 56/64 kbps | Yes | X.25 Term. Support | No |
| Power Interface | PS 2 | 112/128 kbps | | Async PAD | |
| Self-Initializing? | Yes | Bonding? | No | Sync PAD | |
| NIIGs: | 1-13 | Stores Calling Number? | Yes | Logical Channels | |
| NIPGs: | 1-7 | Dialing Modes: | | APIs Supported: | |

Additional Features:

- 18 and 30 button models with optional 48 add on button module
- Self initializing; speed dial; speaker phone with group listen; date & time; display incoming call info; auto answer; 2 x 24; locally programmed speed dials; Hot Dial Pad;
- Data package now available
- Supports all NI-1 terminal modes

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Fujitsu<br>ISDN Division<br>4403 Bland Road<br>Somerset Park<br>Raleigh, NC 27609<br>Ann Daly<br>(919) 790 - 2032 | SRS 1050 | Voice: Yes<br>Circuit-Data: Yes<br>B Channel Packet: No<br>D Channel Packet: Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls: 2 |
| NI-2 Date: Planned * | FCC Class: B | Uses 1 DN or 2?: 2 |

| VOICE AND DISPLAY | CIRCUIT DATA | D CHANNEL PACKET |
|---|---|---|
| Display: Yes | Async<br>• V.120: Yes 38.4<br>• Other | X.25 Term. Support: Yes |
| Speaker Phone?: Yes | | Async PAD: Yes |
| Feature Keys?: 18 | | Sync PAD |
| Analog Interface: No | | Logical Channels: 1 |
| Data Interface: RS-232 | Synch: N/A<br>• V.120<br>• Other | **B CHANNEL PACKET** N/A |
| ISDN Interface: S/T | 56/64 kbps: Yes | X.25 Term. Support |
| Power Interface: NT1- 7&8 (P2)<br>AC option available | 112/128 kbps: No | Async PAD |
| Self-Initializing?: Yes | Bonding?: No | Sync PAD |
| NIIGs: 1-4,6,7,8,10,11,12,14,<br>15,17,20,21,22,24,25,27 | Stores Calling Number?<br>Yes (8) | Logical Channels |
| NIPGs: #1-8 | Dialing Modes: Stored, keypad, keyboard | APIs Supported: None |

Additional Features:

| | |
|---|---|
| CartridgeUpgrade | Data LED Indicators |
| Call Log | Data Loopback |
| Soft Keys | |
| Q.931 Message Logging | |
| Printer Pinfeed Templates Available (and associated PC printing program) | |

*As specifications are available

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Fujitsu<br>ISDN Division<br>4403 Bland Road<br>Somerset Park<br>Raleigh, NC 27609<br>Ann Daly<br>(919) 790 - 2032 | SRS 2000 | Voice: Yes<br>Circuit-Data: Yes,<br>B Channel Packet: No<br>D Channel Packet: Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls: 5ESS - two , DMS - one |
| NI-2 Date: Planned * | FCC Class: A | Uses 1 DN or 2? 1 |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | Yes | Async | | X.25 Term. Support | Yes |
| | | • V.120 | Yes 19.2 | | |
| Speaker Phone? | Yes | • Other | V.110 | Async PAD | Yes |
| Feature Keys? | 32 | | | Sync PAD | No |
| Analog Interface | No | | | Logical Channels | 1 |
| | | Synch | | **B CHANNEL PACKET** | N/A |
| Data Interface | RS-232 | • V.120 | | | |
| | | • Other | V.110 19.2 | | |
| ISDN Interface | S/T | 56/64 kbps | Yes | X.25 Term. Support | |
| Power Interface | NT1- 7&8 (P2)<br>AC option available | 112/128 kbps | No | Async PAD | |
| Self-Initializing? | Layer 1 & 2 Yes<br>SPID Yes; SPM No | Bonding? | No | Sync PAD | |
| NIIGs: | 1-4,6,7,8,10,11,12,14,<br>15,17,20,21,22,24,25,27 | Stores Calling Number? | Yes (8) | Logical Channels | |
| NIPGs: | #1-8 | Dialing Modes: | Stored, keypad<br>keyboard | APIs Supported: | None |

Additional Features:

- CartridgeUpgrade
- Call Log
- Soft Keys
- Q.931 Message Logging
- Data Module added/changed w/only 2 screws
- Printer Pinfeed Templates Available (and associated PC printing program)
- Data LED Indicators
- Data Loopback

*As soon as specifications are available

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Lodestar Technology, Inc.<br>3101 MaGuire Blvd., Suite 251<br>Orlando, FL 32803<br>(407) 895-0881<br>FAX (407) 895-3566 | LT1-2002U | Voice: Yes (30+ Call appearances)<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls: 30 |
| NI-2 Date: Now | FCC Class: B | Uses 1 DN or 2?: Either |
| **VOICE AND DISPLAY**<br>Display: 40 x 4<br>Speaker Phone?: Yes<br>Feature Keys?: 35<br>Analog Interface: No<br>Data Interface: RS-232 V.24 Sync<br>ISDN Interface: U<br>Power Interface: 7.5 V DC<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async • V.120 • Other: Yes, 38.4 Kbps<br>Synch • V.120 • Other: Yes, 64 Kbps<br>56/64 kbps: Both<br>112/128 kbps<br>Bonding<br>Stores Calling Number? Yes | **D CHANNEL PACKET**<br>X.25 Term. Support<br>Async PAD: Yes<br>Sync PAD Logical Channels: 1<br>**B CHANNEL PACKET**<br>X.25 Term. Support<br>Async PAD<br>Sync PAD Logical Channels |
| NIIGs: 1,2,3,4,6,7,8,10,11,12, 20,21,22<br>NIPGs: 1,2,3,4,5,7 | Dialing Modes: Enbloc and overlap sending | APIs Supported: Hayes AT for both data ports. PAD for D-packet |

Additional Features:

- Two data ports
- Automatic switch type detection and adaption to AT&T and NTI pre NI-1 or after NI-1 releases.
- Battery backup (rechargeable) up to 3 hours.

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
| --- | --- | --- |
| Lodestar Technology, Inc.<br>3101 MaGuire Blvd., Suite 251<br>Orlando, FL 32803<br>(407) 895-0881<br>FAX (407) 895-3566 | LT1-2002S | Voice: Yes (30+ Call Appearances)<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes<br>Simultaneous active calls: 30<br>Uses 1 DN or 2?: Either |
| NI-1 Date: Now | Price: | |
| NI-2 Date: Now | FCC Class: B | |
| **VOICE AND DISPLAY**<br>Display: 40 x 4<br>Speaker Phone?: Yes<br>Feature Keys?: 35<br>Analog Interface: No<br>Data Interface: RS-232, V.24 Sync<br>ISDN Interface: S/T<br>Power Interface: PS 2 and external power adapter of 48 V DC<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async<br>• V.120: Yes, 38.4 Kbps<br>• Other<br>Synch<br>• V.120: Yes, 64 Kbps<br>• Other<br>56/64 kbps: Both<br>112/128 kbps<br>Bonding?<br>Stores Calling Number? | **D CHANNEL PACKET**<br>X.25 Term. Support<br>Async PAD: Yes<br>Sync PAD<br>Logical Channels: 1<br>**B CHANNEL PACKET**<br>X.25 Term. Support<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 1,2,3,4,6,7,8,10,11,12, 20,21,22<br>NIPGs: 1,2,3,4,5,7 | Dialing Modes: Enbloc and overlap sending | APIs Supported: Hayes AT for both data ports PAD for D-packet |

Additional Features:

- Two data ports
- Automatic detection and adaption of switch types such as AT&T 5ESS and NTI's DMS-100
- Battery backup (rechargeable) up to 3 hours.

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### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Lodestar Technology, Inc.<br>3101 MaGuire Blvd., Suite 251<br>Orlando, FL 32803<br>(407) 895-0881<br>FAX (407) 895-3566 | LT1-1501U | Voice: Yes (10 Call Appearances)<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes<br>Simultaneous active calls: 10<br>Uses 1 DN or 2?: Either |
| NI-1 Date: Now | Price: | |
| NI-2 Date: Now | FCC Class: B | |
| VOICE AND DISPLAY<br>Display: 24 x 2<br>Speaker Phone?: Yes<br>Feature Keys?: 10<br>Analog Interface: No<br>Data Interface: RS-232<br>ISDN Interface: U<br>Power Interface: 7.5 V DC External<br>Self-Initializing?: Yes | CIRCUIT DATA<br>Async<br>• V.120: Yes, 37.6 Kbps<br>• Other<br>Synch<br>• V.120: Yes, 64 Kbps<br>• Other<br>56/64 kbps: Both<br>112/128 kbps<br>Bonding?<br>Stores Calling Number?: Yes | D CHANNEL PACKET<br>X.25 Term. Support<br>Async PAD: Yes<br>Sync PAD<br>Logical Channels: 1<br>B CHANNEL PACKET<br>X.25 Term. Support<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 1,2,3,4,6,7,8,10,11,12, 20,21,22<br>NIPGs: 1,2,3,4,5,7 | Dialing Modes: | APIs Supported: |

Additional Features:

- Automatic detection and adaption to AT&T and NTI's various switch types
- Battery backup (rechargeable) up to 3 hours.

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Lodestar Technology, Inc.<br>3101 MaGuire Blvd., Suite 251<br>Orlando, FL 32803<br>(407) 895-0881<br>FAX (407) 895-3566 | LT1-1501S | Voice | Yes (10 Call Appearances) |
| | | Circuit-Data | One Channel |
| | | B Channel Packet | No |
| | | D Channel Packet | Yes |
| NI-1 Date: September, 1993 | Price: | Simultaneous active calls | 10 |
| NI-2 Date: September, 1993 | FCC Class: B | Uses 1 DN or 2? | Either |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | 24 x 2 | Async<br>• V.120<br>• Other | Yes, 37.6 Kbps | X.25 Term. Support | |
| Speaker Phone? | Yes | | | Async PAD | Yes |
| Feature Keys? | 10 | | | Sync PAD | |
| Analog Interface | No | Synch<br>• V.120<br>• Other | Yes, 64 Kbps | Logical Channels | 1 |
| | | | | **B CHANNEL PACKET** | |
| Data Interface | RS-232 | | | X.25 Term. Support | |
| ISDN Interface | S/T | | | | |
| Power Interface | PS 2, and external, phantom | 56/64 kbps<br>112/128 kbps | Both | Async PAD | |
| Self-Initializing? | Yes | Bonding? | | Sync PAD | |
| NIIGs: 1,2,3,4,6,7,8,10,11,12, 20,21,22 | | Stores Calling Number? | Yes | Logical Channels | |
| NIPGs: 1,2,3,4,5,7 | | Dialing Modes: | Enbloc and overlap sending | APIs Supported: | |

Additional Features:

- Automatic detection and adaption to AT&T and NTI's various switch types
- Battery backup (rechargeable) up to 3 hours.

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Lodestar Technology, Inc.<br>3101 MaGuire Blvd., Suite 251<br>Orlando, FL 32803<br>(407) 895-0881<br>FAX (407) 895-3566 | LT1-1001S | Voice | Yes (10 Call Appearances) |
| | | Circuit-Data | No |
| | | B Channel Packet | No |
| | | D Channel Packet | No |
| NI-1 Date: October, 1993 | Price: | Simultaneous active calls | 10 |
| NI-2 Date: October, 1993 | FCC Class: B | Uses 1 DN or 2? | One |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | Option of 16 x 1 | Async<br>• V.120<br>• Other | No | X.25 Term. Support | |
| Speaker Phone? | Yes | | | Async PAD | No |
| Feature Keys? | Yes | | | Sync PAD | |
| Analog Interface | No | Synch<br>• V.120<br>• Other | | Logical Channels | 1 |
| Data Interface | No | | | **B CHANNEL PACKET** | |
| ISDN Interface | S/T | | | X.25 Term. Support | |
| Power Interface | phantom, PS 2 | 56/64 kbps<br>112/128 kbps | | Async PAD | No |
| Self-Initializing? | Yes | Bonding? | | Sync PAD | |
| NIIGs: | 2 | Stores Calling Number? | | Logical Channels | |
| NIPGs: | 1,2,3,4,5 | Dialing Modes: | | APIs Supported: | |

Additional Features:

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Lodestar Technology, Inc.<br>3101 MaGuire Blvd., Suite 251<br>Orlando, FL 32803<br>(407) 895-0881<br>FAX (407) 895-3566 | LT1-1001U | Voice | Yes (10 Call Appearances) |
| | | Circuit-Data | No |
| | | B Channel Packet | No |
| | | D Channel Packet | No |
| NI-1 Date: October, 1993 | Price: | Simultaneous active calls | 10 |
| NI-2 Date: October, 1993 | FCC Class: B | Uses 1 DN or 2? | One |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | Option of 16 x 1 | Async<br>• V.120<br>• Other | No | X.25 Term. Support | No |
| Speaker Phone? | Yes | | | Async PAD | |
| Feature Keys? | Yes | | | Sync PAD | |
| Analog Interface | No | Synch<br>• V.120<br>• Other | | Logical Channels | 1 |
| Data Interface | No | | | **B CHANNEL PACKET** | |
| ISDN Interface | U | | | X.25 Term. Support | No |
| Power Interface | External, 7.5 V DC | 56/64 kbps<br>112/128 kbps | | Async PAD | |
| Self-Initializing? | Yes | Bonding? | | Sync PAD | |
| NIIGs: | 2 | Stores Calling Number? | | Logical Channels | |
| NIPGs: | 1,2,3,4,5 | Dialing Modes: | | APIs Supported: | |
| Additional Features: | | | | | |

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Motorola UDS<br>5000 Bradford Drive<br>Huntsville, AL 35805<br><br>Dean Sharp<br>(205) 430-8902 | VDS 120 | Voice: Yes<br>Circuit-Data: Yes<br>B Channel Packet: No<br>D Channel Packet: Yes |
| NI-1 Date: May 1994 | Price: TBA | Simultaneous active calls: Two |
| NI-2 Date: | FCC Class: A | Uses 1 DN or 2?: Either |
| **VOICE AND DISPLAY**<br>Display: 2 x 24<br>Speaker Phone?: Yes<br>Feature Keys?: 28<br>Analog Interface: No<br>Data Interface: RS-232<br>ISDN Interface: S/T<br>Power Interface: AC, PS-1, PS-2<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async<br>• V.120: Yes, 57.6<br>• Other: T-Link, 19.2<br><br>Synch<br>• V.120: Yes, 19.2<br>• Other: T-Link, 64K<br><br>56/64 kbps: Yes<br>112/128 kbps: No<br><br>Bonding?: No | **D CHANNEL PACKET**<br>X.25 Term. Support: No<br>Async PAD: Yes<br>Sync PAD: No<br>Logical Channels: 1<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support<br>Async PAD<br>Sync PAD |
| NIIGs: 1,2,3,6,7,11,21 | Stores Calling Number?: Yes | Logical Channels |
| NIPGs: 1,2,3,4,5,6,7 | Dialing Modes: Keypad, AT, V.25 bis, DTR | APIs Supported: |

Additional Features:

- Remote configuration
- Software download option

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Northern Telecom, Inc.<br>4001 E. Chapel Hill-Nelson Hwy<br>Research Triangle Park, NC 27709<br><br>Bill Barnhill<br>(919) 255-8946<br>FAX: (919) 992-6548 | M5317TDX | Voice | One Channel |
| | | Circuit-Data | One Channel |
| | | B Channel Packet | No |
| | | D Channel Packet | Yes |
| | | Simultaneous active calls | One Voice, One Data |
| NI-1 Date: 7/1/93 | Price: $675 | | |
| NI-2 Date: | FCC Class: A | Uses 1 DN or 2? | Two |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | 2 x 40 | Async<br>• V.120 | 19.2 K | X.25 Term. Support | 19.2K |
| Speaker Phone? | Yes | • Other<br>T-Link | 19.2K | Async PAD | 19.2K |
| Feature Keys? | 12 Hard, 5 Soft | | | Sync PAD | No |
| Analog Interface | No | | | Logical Channels | One |
| Data Interface | RS-232C DB25 | Synch<br>• V.120<br>• Other | No | **B CHANNEL PACKET** | |
| ISDN Interface | S/T | | | X.25 Term. Support | |
| Power Interface | PS1, PS2 | 56/64 kbps | No | Async PAD | |
| Self-Initializing? | Yes | 112/128 kbps | No | Sync PAD | |
| NIIGs: | | Bonding? | No | Logical Channels | |
| NIPGs: | | Stores Calling Number? | Yes | APIs Supported: | Hayes Extended AT<br>X.28 |
| | | Dialing Modes: | Extended AT<br>X.28 | | |

Additional Features:

NI-1 BELLCORE Tested

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Northern Telecom, Inc.<br>4001 E. Chapel Hill-Nelson Hwy<br>Research Triangle Park, NC 27709<br><br>Bill Barnhill<br>(919) 255-8946<br>FAX: (919) 992-6548 | M5209T | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: No<br>D Channel Packet: Yes<br>Simultaneous active calls: One Voice, One Data |
| NI-1 Date: 4/1/93 | Price: $580 | Uses 1 DN or 2? Either |
| NI-2 Date: TBA | FCC Class: A | |

| VOICE AND DISPLAY | CIRCUIT DATA | D CHANNEL PACKET |
|---|---|---|
| Display: 2 x 24<br>Speaker Phone?: Speaker, No Microphone<br>Feature Keys?: 9<br>Analog Interface: No<br>Data Interface: RS-232C DB25<br>ISDN Interface: S/T<br>Power Interface: PS2<br>Self-Initializing?: Yes | Async<br>• V.120: 38.4K<br>• Other: T-Link 19.2K<br><br>Synch<br>• V.120: No<br>• Other<br><br>56/64 kbps: No<br>112/128 kbps: No | X.25 Term. Support: 9.6K<br>Async PAD: 9.6K<br>Sync PAD: No<br>Logical Channels: One<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support<br>Async PAD<br>Sync PAD |
| NIIGs: | Bonding?: No | Logical Channels |
| NIPGs: | Stores Calling Number?: Yes<br>Dialing Modes: Extended AT X.28 | APIs Supported: Hayes Extended AT X.3, X.28 |

**This information is subject to change without notice.**
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Additional Features:

NI-1 BELLCORE Tested

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Siemens Stromberg-Carlson<br><br>900 Broken Sound Parkway<br>Boca Raton, FL 33487<br><br>Dan Bonner<br>(407) 955-3037 | SSC-ISDN SET 782<br>ACD<br><br>ANSI & NI-1<br>Compatible Terminal | Voice<br><br>Circuit-Data<br><br>B Channel Packet<br><br>D Channel Packet | One Channel<br><br>One Channel<br><br>None<br><br>No |
| NI-1 Date: Now | Price: | Simultaneous active calls | Two; one voice & one data |
| NI-2 Date: | FCC Class: | Uses 1 DN or 2? | One or more |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET |
|---|---|---|---|---|
| Display | Yes, 2 x 24 | Async<br>• V.120<br>• Other | Yes - 19.2 Kbps<br>DMi-2 - 19.2 Kbps | X.25 Term. Support |
| Speaker Phone? | Yes | | | Async PAD |
| Feature Keys? | Yes; 16/32 | | | Sync PAD |
| Analog Interface | N | Synch<br>• V.120<br>• Other | | Logical Channels |
| Data Interface | RS-232 | | | **B CHANNEL PACKET** |
| ISDN Interface | S/T | | | X.25 Term. Support |
| Power Interface | Line<br>PS1 or PS2 | 56/64 kbps<br>112/128 kbps | Yes<br>No | Async PAD |
| Self-Initializing? | Yes | Bonding? | No | Sync PAD |
| NIIGs: | 2-4, 6-8, 11, 12, 15 | Stores Calling Number? | Yes | Logical Channels |
| NIPGs: | 1-6 | Dialing Modes: | Hayes AT | APIs Supported: |

| Additional Features: |
|---|
| |

**This information is subject to change without notice.**
**See Notice of Disclaimer on Title Page**

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Siemens Stromberg-Carlson<br>900 Broken Sound Parkway<br>Boca Raton, FL 33487<br>Dan Bonner<br>(407) 955-3037 | SSC-ISDN SET 787<br>ANSI & NI-1<br>Compatible Terminal | Voice | One or Two Channels |
| | | Circuit-Data | One Channel |
| | | B Channel Packet | None |
| | | D Channel Packet | No |
| NI-1 Date: Now | Price: | Simultaneous active calls | Two; one/two voice &/or one data |
| NI-2 Date: | FCC Class: | Uses 1 DN or 2? | One or more |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET |
|---|---|---|---|---|
| Display | Yes, 2 x 24 | Async<br>• V.120 | Yes - 19.2 Kbps | X.25 Term. Support |
| Speaker Phone? | Yes | • Other | DMI-2 - 19.2 Kbps | Async PAD |
| Feature Keys? | Yes; 16/32 | | | Sync PAD |
| Analog Interface | No | Synch | | Logical Channels |
| | | • V.120<br>• Other | | **B CHANNEL PACKET** |
| Data Interface | RS-232 | | | |
| ISDN Interface | S/T | 56/64 kbps | Yes | X.25 Term. Support |
| Power Interface | Line<br>PS1 or PS2 | 112/128 kbps | No | Async PAD |
| Self-Initializing? | Yes | Bonding? | No | Sync PAD |
| NIIGs: | 2-4, 6-8, 11, 12, 15 | Stores Calling Number? | Yes | Logical Channels |
| NIPGs: | 1-6 | Dialing Modes: | Hayes AT | APIs Supported: |

Additional Features:

**This information is subject to change without notice.**
**See Notice of Disclaimer on Title Page**

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 284/V | Voice: One Channel<br>Circuit-Data: None<br>B Channel Packet: None<br>D Channel Packet: None |
| NI-1 Date: Now | Price: | Simultaneous active calls: One voice |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2?: One |
| **VOICE AND DISPLAY**<br>Display: Yes, 2 x 24<br>Speaker Phone?: Speaker - no microphone<br>Feature Keys?: Yes; 10<br>Analog Interface: No<br>Data Interface<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async: No<br>• V.120<br>• Other<br>Synch<br>• V.120: No<br>• Other:<br>56/64 kbps<br>112/128 kbps: No<br>Bonding?: No<br>Stores Calling Number?: TBA | **D CHANNEL PACKET**<br>X.25 Term. Support: No<br>Async PAD: No<br>Sync PAD: No<br>Logical Channels<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2, 4, 6<br><br>NIPGs: 1-5 | Dialing Modes: Speed Dial; Key PAD; Last Number Redial: Save & Repeat | APIs Supported: |

Additional Features:

- Multiple CO configurations; DMS Custom: 5ESS Custom; NI1 are part of the software and called into use form the Man-Machine interface.
  No cartridges are required.
-

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 284/P | Voice | One Channel |
| | | Circuit-Data | None |
| | | B Channel Packet | None |
| | | D Channel Packet | Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls | Two; one voice & one data PAD |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2? | Either |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | Yes, 2 x 24 | Async | | X.25 Term. Support | No |
| | | • V.120 | No | | |
| Speaker Phone? | Speaker - no microphone | • Other | | Async PAD | Yes; 9600 |
| Feature Keys? | Yes; 10 | | | Sync PAD | No |
| Analog Interface | No | Synch | | Logical Channels | 1 |
| | | • V.120 | No | **B CHANNEL PACKET** | |
| Data Interface | RS-232, V.24 | • Other: | | X.25 Term. Support | N/A |
| ISDN Interface | S/T | | | | |
| Power Interface | PS1; PS2; External | 56/64 kbps | No | Async PAD | |
| | | 112/128 kbps | No | | |
| Self-Initializing? | Yes | Bonding? | No | Sync PAD | |
| NIIGs: | 2, 4, 6, 8, 20, 25, 27 | Stores Calling Number? | TBA | Logical Channels | |
| NIPGs: | 1-5, 7-8 | Dialing Modes: | Auto Ans & Orig. Keypad; Dialing; Power On; Mnemonics | APIs Supported: | |

Additional Features:

- Multiple CO configurations; including DMS and 5ESS Custom capability are part of the set software and called into use form the Man-Machine interface.
  No cartridges are required.
- Field Upgradable from 284/V

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 284/D1 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: None<br>D Channel Packet: Yes<br>Simultaneous active calls: Two; one voice & one data (B or D)<br>Uses 1 DN or 2?: Either |
| NI-1 Date: Now | Price: | |
| NI-2 Date: TBA | FCC Class: A | |

| VOICE AND DISPLAY | CIRCUIT DATA | D CHANNEL PACKET |
|---|---|---|
| Display: Yes, 2 x 24<br>Speaker Phone?: Speaker - no microphone<br>Feature Keys?: Yes; 10<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | Async<br>• V.120: Yes - 38.4 Kbps<br>• Other: DMi - 19.2 Kbps; T-link - 19.2 Kbps; Telrad - 38.4 Kbps<br><br>Synch<br>• V.120: No<br>• Other:<br>• DMI - 56/64 Kbps<br>• T-Link - 56/64 Kbps<br>• Telrad - 56/64 Kbps<br>56/64 kbps: Yes<br>112/128 kbps: No<br>Bonding?: No<br>Stores Calling Number?: TBA | X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD:<br>Sync PAD:<br>Logical Channels: |
| NIIGs: 2-4, 6-8, 11, 12, 15, 17, 21, 22, 25, 27<br><br>NIPGs: 1-5, 7-8 | Dialing Modes: Auto Ans & Orig. Hayes AT; Extended Hayes; Keypad; Speed Dialing; Power On; Mnemonics | APIs Supported: Hayes AT; Extended AT |

Additional Features:

- Multiple CO configurations; Rate adaption schemes and SYNC/ASYNC capability are part of the set software and called into use from the Man-Machine interface
  No cartridges are required.

- D-channel messages and commands can be sent/received through the RS-232 data port.
  Useful for Call Management applications.

- Field Upgradable from 284/V

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 285/V | Voice: One Channel<br>Circuit-Data: None<br>B Channel Packet: None<br>D Channel Packet: None |
| NI-1 Date: Now | Price: | Simultaneous active calls: One voice |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2?: One |
| **VOICE AND DISPLAY**<br>Display: Yes, 2 x 24<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 10<br>Analog Interface: No<br>Data Interface<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async<br>• V.120: No<br>• Other<br><br>Synch<br>• V.120: No<br>• Other:<br><br>56/64 kbps<br>112/128 kbps: No<br>Bonding?: No | **D CHANNEL PACKET**<br>X.25 Term. Support: No<br>Async PAD: No<br>Sync PAD: No<br>Logical Channels<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2, 4, 6 | Stores Calling Number?: TBA | |
| NIPGs: 1-5 | Dialing Modes: Speed Dial; Key PAD; Last Number Redial; Save and Repeat | APIs Supported: |

Additional Features:

- Multiple CO configurations; DMS Custom; 5ESS Custom; NI1 are part of the software and called into use from the Man-Machine interface.
  No cartridges are required.

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### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 285/P | Voice: One Channel<br>Circuit-Data: None<br>B Channel Packet: None<br>D Channel Packet: Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls: Two; One Voice & One PMD |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2?: Either |
| **VOICE AND DISPLAY**<br>Display: Yes, 2 x 24<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 10<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async: No<br>• V.120<br>• Other<br><br>Synch<br>• V.120: No<br>• Other:<br><br>56/64 kbps: No<br>112/128 kbps: No<br>Bonding?: No | **D CHANNEL PACKET**<br>X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1 |
| NIIGs: 2, 4, 6, 8, 20, 25, 27 | Stores Calling Number?: TBA | **B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD:<br>Sync PAD:<br>Logical Channels: |
| NIPGs: 1-5, 7-8 | Dialing Modes: Auto Ans & Orig. Keypad; Dialing; Power On; Mnemonics | APIs Supported: Hayes AT; Extended AT |

Additional Features:

- Multiple CO configurations; including DMS and 5ESS Custom capability are part of the set software and called into use from the Man-Machine interface. No cartridges are required.
- Field Upgradable from 285/V

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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 285/D1 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: None<br>D Channel Packet: Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls: Two; one voice & one data (B or D) |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2?: Either |
| VOICE AND DISPLAY<br>Display: Yes, 2 x 24<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 10<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | CIRCUIT DATA<br>Async<br>• V.120: Yes - 38.4 Kbps<br>• Other: DMI - 19.2 Kbps; T-link - 19.2 Kbps; Telrad - 38.4 Kbps<br>Synch<br>• V.120: No<br>• Other:<br>• DMI - 56/64 Kbps<br>• T-Link - 56/64 Kbps<br>• Telrad - 56/64 Kbps<br>56/64 kbps: Yes<br>112/128 kbps: No<br>Bonding?: No<br>Stores Calling Number?: TBA | D CHANNEL PACKET<br>X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1<br><br>B CHANNEL PACKET<br>X.25 Term. Support: N/A<br>Async PAD:<br>Sync PAD:<br>Logical Channels: |
| NIIGs: 2-4, 6-8, 10, 11, 12, 17, 21, 22, 25, 27<br>NIPGs: 1-5, 7-8 | Dialing Modes: Auto Ans & Orig. Hayes AT; Extended Hayes; Keypad; Speed Dialing; Power On; Mnemonics | APIs Supported: Hayes AT; Extended AT |

Additional Features:

- Multiple CO configurations; Rate adaption schemes and SYNC/ASYNC capability are part of the set software and called into use from the Man-Machine interface
  No cartridges are required.
- D-channel messages and commands can be sent/received through the RS-232 data port.
  Useful for Call Management applications.
- Field Upgradable from 285/V

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 286/V | Voice: One Channel<br>Circuit-Data: None<br>B Channel Packet: None<br>D Channel Packet: None<br>Simultaneous active calls: One voice<br>Uses 1 DN or 2?: One |
| NI-1 Date: Now | Price: | |
| NI-2 Date: TBA | FCC Class: A | |

| VOICE AND DISPLAY | CIRCUIT DATA | D CHANNEL PACKET |
|---|---|---|
| Display: Yes, 2 x 24<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 16<br>Analog Interface: No<br>Data Interface<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | Async: No<br>• V.120<br>• Other<br>Synch<br>• V.120: No<br>• Other:<br>56/64 kbps<br>112/128 kbps: No<br>Bonding?: No<br>Stores Calling Number?: TBA | X.25 Term. Support<br>Async PAD<br>Sync PAD<br>Logical Channels<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2, 4, 6<br>NIPGs: 1-5 | Dialing Modes: | APIs Supported: |

Additional Features:

- Multiple CO configurations; DMS Custom; 5ESS Custom, NI1 are part of the software and called into use from the Man-Machine interface.
  No cartridges are required.

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED | |
|---|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 286/P | Voice | One Channel |
| | | Circuit-Data | None |
| | | B Channel Packet | None |
| | | D Channel Packet | Yes |
| NI-1 Date: Now | Price: | Simultaneous active calls | Two; one voice & one PMD |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2? | Either |

| VOICE AND DISPLAY | | CIRCUIT DATA | | D CHANNEL PACKET | |
|---|---|---|---|---|---|
| Display | Yes, 2 x 24 | Async<br>• V.120 | No | X.25 Term. Support | No |
| Speaker Phone? | Yes | • Other | | Async PAD | Yes; 9600 |
| Feature Keys? | Yes; 16 | | | Sync PAD | No |
| Analog Interface | No | Synch | | Logical Channels | 1 |
| | | • V.120 | No | **B CHANNEL PACKET** | |
| Data Interface | RS-232, V.24 | • Other: | | X.25 Term. Support | N/A |
| ISDN Interface | S/T | | | | |
| Power Interface | PS1; PS2; External | 56/64 kbps | No | Async PAD | |
| | | 112/128 kbps | No | | |
| Self-Initializing? | Yes | Bonding? | No | Sync PAD | |
| NIIGs: | 2, 4, 6, 8, 20, 22, 25, 27 | Stores Calling Number? | TBA | Logical Channels | |
| NIPGs: | 1-5, 7-8 | Dialing Modes: | Auto Ans & Orig. Keypad; Dialing; Power On; Mnemonics | APIs Supported: | |

Additional Features:

- Multiple CO configurations; including DMS and 5ESS Custom capability are part of the set software and called into use from the Man-Machine interface.
  No cartridges are required.
- Field Upgradable from 286/V

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 286/D1 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: None<br>D Channel Packet: Yes<br>Simultaneous active calls: Two; one voice & one data (B or D)<br>Uses 1 DN or 2?: Either |
| NI-1 Date: Now | Price: | |
| NI-2 Date: TBA | FCC Class: A | |
| **VOICE AND DISPLAY**<br>Display: Yes, 2 x 24<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 16<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS1; PS2; External<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async<br>• V.120: Yes - 38.4 Kbps<br>• Other: DMI - 19.2 Kbps<br>T-link - 19.2 Kbps<br>Telrad - 38.4 Kbps<br><br>Synch<br>• V.120: No<br>• Other:<br>• DMI - 56/64 Kbps<br>• T-Link - 56/64 Kbps<br>• Telrad - 56/64 Kbps<br>56/64 kbps: Yes<br>112/128 kbps: No<br>Bonding?: No<br>Stores Calling Number?: TBA | **D CHANNEL PACKET**<br>X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2-4, 6-8, 10, 11, 12, 15, 17, 21, 22, 25, 27<br>NIPGs: 1-5, 7-8 | Dialing Modes: Auto Ans & Orig. Hayes AT; Extended Hayes; Keypad; Speed Dialing; Power On; Mnemonics | APIs Supported: Hayes AT; Extended AT |

Additional Features:

- Multiple CO configurations; Rate adaption schemes and SYNC/ASYNC capability are part of the set software and called into use from the Man-Machine interface
  No cartridges are required.
- D-channel messages and commands can be sent/received through the RS-232 data port. Useful for Call Management applications.
- Field Upgradable from 286/V

## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 287/V | Voice: One Channel<br>Circuit-Data: None<br>B Channel Packet: None<br>D Channel Packet: None |
| NI-1 Date: TBA | Price: | Simultaneous active calls: One Voice, |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2?: One |
| **VOICE AND DISPLAY**<br>Display: Yes, 2 x 40<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 37<br>Analog Interface: No<br>Data Interface:<br>ISDN Interface: S/T<br>Power Interface: PS2; External<br>Self-Initializing?: Yes | **CIRCUIT DATA**<br>Async<br>• V.120: No<br>• Other<br>Synch<br>• V.120: No<br>• Other:<br>56/64 kbps: No<br>112/128 kbps: No<br>Bonding?: No | **D CHANNEL PACKET**<br>X.25 Term. Support: No<br>Async PAD: No<br>Sync PAD: No<br>Logical Channels<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2, 4, 6 | Stores Calling Number? | |
| NIPGs: 1-5 | Dialing Modes: Keypad, Speed Dialing, Last No. Redial, Save & Repeat | APIs Supported: |

Additional Features:

- Multiple CO configurations; DMS Custom and 5ESS Custom are part of the Set software and called into use from the Man-Machine interface.
  No cartridges are required.

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 287/P | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: None<br>D Channel Packet: Yes<br>Simultaneous active calls: Two, One Voice, One PMD<br>Uses 1 DN or 2?: Either |
| NI-1 Date: TBA | Price: | |
| NI-2 Date: TBA | FCC Class: A | |

| VOICE AND DISPLAY | CIRCUIT DATA | D CHANNEL PACKET |
|---|---|---|
| Display: Yes, 2 x 40<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 37<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS2; External<br>Self-Initializing?: Yes | Async<br>• V.120: No<br>• Other<br><br>Synch<br>• V.120: No<br>• Other:<br>• Telrad - 56/64 Kbps<br><br>56/64 kbps: Yes<br>112/128 kbps: No<br>Bonding?: No<br>Stores Calling Number? | X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2, 4, 6, 8, 20, 22, 25, 27<br><br>NIPGs: 1-5, 7-8 | Dialing Modes:<br>Auto Ans & Orig.; Keypad; Speed Dialing; Power On; Mnemonics; Redial | APIs Supported: |

Additional Features:

- Multiple CO configurations and DMS Custom and 5ESS Custom are part of the set software and called into use from the Man-Machine interface. No cartridges are required.
- Field Upgradable from 287/V

### 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 287/D1 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: None<br>D Channel Packet: Yes |
| NI-1 Date: TBA | Price: | Simultaneous active calls: Two, One Voice, One CMD or PMD |
| NI-2 Date: TBA | FCC Class: A | Uses 1 DN or 2?: Either |

| VOICE AND DISPLAY | CIRCUIT DATA | D CHANNEL PACKET |
|---|---|---|
| Display: Yes, 2 x 40<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 37<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS2; External<br>Self-Initializing?: Yes | Async<br>• V.120: No<br>• Other<br><br>Synch<br>• V.120: No<br>• Other:<br>• Telrad - 56/64 Kbps<br><br>56/64 kbps: Yes<br>112/128 kbps: No<br>Bonding?: No | X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1<br><br>**B CHANNEL PACKET**<br>X.25 Term. Support: N/A<br>Async PAD:<br>Sync PAD:<br>Logical Channels: |
| NIIGs: 2-4, 6-8, 10, 11, 12, 15, 17, 21, 22, 25, 27<br><br>NIPGs: 1-5, 7-8 | Stores Calling Number?<br><br>Dialing Modes: Auto Ans & Orig.; Keypad; Speed Dialing; Power On; Mnemonics | APIs Supported: |

Additional Features:

- Multiple CO configurations; DMS custom and 5ESS Custom are part of the set software and called into use from the Man-Machine interface.
  No cartridges are required.
- Field Upgradable from 287/V

**This information is subject to change without notice.**
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## 4.2.4 ISDN Phones

| COMPANY NAME | PRODUCT NAME | CALLS SUPPORTED |
|---|---|---|
| Telrad Communications<br><br>135 Crossways Park Drive<br>Woodbury, NY 11797<br><br>Erv Sloan<br>(516) 921-8300 | IDS - 287/D2 | Voice: One Channel<br>Circuit-Data: One Channel<br>B Channel Packet: None<br>D Channel Packet: Yes<br>Simultaneous active calls: Three, One Voice, One CMD, One PMD<br>Uses 1 DN or 2?: Either |
| NI-1 Date: TBA | Price: | |
| NI-2 Date: TBA | FCC Class: A | |
| VOICE AND DISPLAY<br>Display: Yes, 2 x 40<br>Speaker Phone?: Yes<br>Feature Keys?: Yes; 37<br>Analog Interface: No<br>Data Interface: RS-232, V.24<br>ISDN Interface: S/T<br>Power Interface: PS2; External<br>Self-Initializing?: Yes | CIRCUIT DATA<br>Async<br>• V.120: No<br>• Other<br><br>Synch<br>• V.120: No<br>• Other:<br>• Telrad - 56/64 Kbps<br><br>56/64 kbps: Yes<br>112/128 kbps: No<br>Bonding?: No | D CHANNEL PACKET<br>X.25 Term. Support: No<br>Async PAD: Yes; 9600<br>Sync PAD: No<br>Logical Channels: 1<br><br>B CHANNEL PACKET<br>X.25 Term. Support: N/A<br>Async PAD<br>Sync PAD<br>Logical Channels |
| NIIGs: 2-4, 6-8, 10, 11, 12, 15, 17, 21, 22, 25, 27<br><br>NIPGs: 1-5, 7-8 | Stores Calling Number?<br><br>Dialing Modes:<br>Auto Ans & Orig.; Keypad; Speed Dialing; Power On; Mnemonics; Redial | <br><br>APIs Supported: |

Additional Features:

- Multiple CO configurations and SYNC/ASYNC capability are part of the set software and called into use from the Man-Machine interface
  No cartridges are required.
- Field Upgradable from 287/V

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