TERMINAL CONFIGURATIONS

Terminals Supported by Operating System
Asynchronous Terminal Feature Support

I. TIME SHARING/ALPHA NUMERIC

711-10
713-10 {TTY 33, 35, 37, 38 Compatible}
751-10/752-10
756-10
751/752/756 Adapter Cables for Unique
Communication Interfaces
714-10/20
714-30
IBM 2741

II. BATCH/REMOTE JOB ENTRY

217-X
731-12
732-12
734-1
CY18-XX
27801-10 {200 UT Mode}
HASP Multileaving Terminals
2780/3780 Terminals

III. GRAPHICS

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774-2
241-1
TEKTRONIX 4010/4014
777-3
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* = Reference configuration notes on the following pages for constraints of operating system.
TIME SHARING/ALPHA NUMERIC

711-10 ASCII TERMINAL

OPTIONS

- 711-30
  Include:
  - CRT/KB
  Terminal Controller
  - MODEM

- 711-100 expand memory
- 711-102 Data Control Feature
- 711-120 non-impact printer
- 711-121 impact printer

A. GENERAL CONFIGURATION NOTES
1. Printers supported in monitor mode only.
2. 711-102 data control features required for INTERCOM Support.
3. 711-103 Protect Feature not supported by standard software.

B. NOS/BC CONFIGURATION NOTES
1. Intercom S/CCI 3
   - Dial-up or dedicated
   - 2 wire or 4 wire; half duplex.
   - Multidrop with 714 controllers (see 714-10, -20).
   - 2000/2400/4800 BPS dial-up.
   - 2400/4800 BPS dedicated.
   - 711-120, 711-121 Printers are not addressable (slaved only).
   - 200UT or Mode 4C protocol.
2. Intercom V/CCP 1
   - Same as B.1.
3. Intercom 4-1673/7077/791
   - Same as B.1 except dial-up only at 2000 BPS.

C. NOS CONFIGURATION NOTES
1. Network Products/CCP 3 (NOS 4).
   - Same as B.1.
2. Network Products/CCP 3 (NOS 3).
   - Supported only by Transaction Facility 1.
   - 2000/2400 BPS dial-up; 2400/4800 dedicated.
3. Timeshare 2 (Telex), E/I 200
   - Not supported.

D. PUBLICATIONS

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E. CABLES
1. Data set cable (10) type VAM furnished with each 711-10.
2. Printer station 1/0 cable (10 ft.) type VAM furnished with each 711-120 or 711-121.
   Other standard lengths available (max. of 1000 ft.) via RSL.
Terminal Configurations

713-10 CONVERSATIONAL DISPLAY
TTY 33, 35, 37, 38 Compatible

OPTIONS
- 713-120 non-impact printer
- 711-100 1 line X 80 character expanded memory

A. GENERAL CONFIGURATION NOTES
1. Operates in TTY (Model 33/35/37/38) compatible asynchronous mode at 110, 150, or 300 BPS.
2. 2-wire, dial-up or dedicated lines.
3. Operates at 110 BPS on 6671 or 6672-2.
4. Operates at 110 or 300 BPS on 6671 or 6672-2 with option 10295-1.
5. Operates at 110 BPS on 6675.
6. Operates at 110 or 300 BPS on 6676 with option 10294-1.
7. Operates at 110/300 BPS on 6671-3.
8. Communication in half duplex mode (2 way alternate).
9. Uses mode 3 (TTY) protocol.
10. Non-impact printer operates in monitor mode.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 2

   - See Asynchronous Terminal Support Matrix (Page 2).
2. Intercom 4/CPI 1

   - See Asynchronous Terminal Support Matrix (Page 2).
3. Intercom 4-6671/6672/7077/7977

   - See Asynchronous Terminal Support Matrix (Page 2).

C. NOS CONFIGURATION NOTES
1. Network Products/CCP 3 (NOS RU).

   - See Asynchronous Terminal Support Matrix (Page 2).
2. Network Products/CCP 3 (NOS RU)

   - See Asynchronous Terminal Support Matrix (Page 2).
3. Timeshared 6 (Telex), E/I 300

   - See Asynchronous Terminal Support Matrix.

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E. CABLES
1. Data Set Cable (10 ft.) furnished with each 713-120.
2. One printer may service up to eight display terminals. Total "daisy chain" cable length limit is 1500 feet. Printer may be located any place within chain.
### GENERAL CONFIGURATION NOTES
1. Operates in TTY (Model 36/35/37) compatible asynchronous mode at speeds up to 4800 BPS.
2. 2-wire, dial-up or dedicated lines.
3. Operates at 110 BPS on 6671 or 6671-2.
4. Operates at 110 or 200 BPS on 6674 or 6671-2 with option 10295-1.
5. Operates at 110 BPS on 6676.
6. Operates at 110 or 300 BPS on 6676 with option 10294-1.
8. Operates up to 1200 BPS on 255D (CCI 1, 2) up to 5600 BPS on 255D (CCI 3, 4)
9. Communication in half duplex mode (2-way alternate).
10. Uses mode 2 (TTY) protocol.
11. Non-impact and impact printer operates in monitor mode.
12. 150 BPS supported with INTERCOM 4.2 and above.

### NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 3
   - See Asynchronous Terminal Support Matrix (Page 2).
2. Intercom 4/CCI 1
   - See Asynchronous Terminal Support Matrix (Page 2).
3. Intercom 4-6674/6676/7077/791
   - See Asynchronous Terminal Support Matrix (Page 2).

### NOS CONFIGURATION NOTES
1. Network Products/CCI 3 (NOS R4)
   - See Asynchronous Terminal Support Matrix (Page 2).
2. Network Products/CCI 3 (NOS R3)
   - See Asynchronous Terminal Support Matrix (Page 2).
3. Timeshare 2 (Telex), E/I 200
   - See Asynchronous Terminal Support Matrix.

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<td>RVLOPS</td>
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### CABLES
1. Data Set Cable 10.5 feet furnished with each 751-10, 752-10.
2. Data Set Cable as above furnished with each I/O peripheral.
3. See Page 7 for adapter cables for unique communication interface situations.
756-10 Display Term

A. GENERAL CONFIGURATION NOTES
1. Operates in TTY (Model 33/35/37/38) compatible asynchronous mode at speeds up to 9600 BPS.
2. 8-wire dial-up or dedicated lines.
3. Operates at 110 BPS on 667a or 667a-2.
4. Operates at 110 or 300 BPS on 667a with 667a-2 with option 10293-1.
5. Operates at 110 BPS on 667a.
6. Operates at 110 or 300 BPS on 667b with option 10294-1.
7. Operates at 110/300 BPS on 667a-3.
8. Operates up to 1200 BPS on 2550 (CCF1.0) up to 9600 BPS on 2550 (CCF3.1/CCI 3).
9. Communication in half duplex mode (2 way alternate).
10. Uses mode 3 (TTY) protocol.
11. Non-impact and impact printer operates in monitor mode.
12. 150 BPS supported with INTERCOM 4.2 and above.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 3
2. See Asynchronous Terminal Support Matrix (Page 2).
3. Intercom 4/CCI 3
5. Intercom 4-a67a/a67b/a707/791

C. NOS CONFIGURATION NOTES
1. Network Products/CCP 3 (NOS RU).
2. See Asynchronous Terminal Support Matrix (Page 2).
3. Intercom 4-a67a/a67b/a707/791

D. PUBLICATIONS

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E. CABLES
1. Data Set Cable (10.5 feet) furnished with each 752, 75b.
2. Data Set Cable as above furnished with each I/O Peripheral.
3. See Page 7 for adapter cables for unique communication interface situations.
ADAPTER CABLES FOR UNIQUE COMMUNICATION INTERFACE SITUATION

ADAPTER P/N FOR DEVICE SHOWN

SITUATION

- BELL MODEM
  - 113A
  - 202C
  - 61407807

- ANDERSON JACOBSON
  - ADAC 242
  - ADAC 1200
  - 61407807
  - 61407808

- DIRECT CONNECTION
  - WITHOUT MODEM
    - SWITCHED CARRIER
    - CONSTANT CARRIER
    - 61407809
    - 61407810

COMMENTS

The adapters are short cables which are connected in series with the data set cable between the device and communications interface. They serve to make the necessary interconnecting wiring changes peculiar to that connection. The adapters may be purchased as the P/N shown for $20.00.
714-10 & 714-20 (ASCII) Multi-Station Display Controller

OPTIONS/PERIPHERALS

- 714-20 (replacement) multi-buffer, multi-station controller. Identical to 714-10, except that it includes 47 printer buffers.
- 714-122A, 14 line x 80 character CRT with data protect and control options.
- 711-120 non-impact printer & 711-123 impact printer, have individual addresses and can print without going through a CRT.
- 714-122 8 line x 80 character.

A. GENERAL CONFIGURATION NOTES
1. Terminal controller has a maximum of 15 addressable peripherals in any combination of display or printers.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 3
   - Dial-up or dedicated; 2 wire or 4 wire, half duplex.
   - 2000/2400/4800 BPS dial-up.
   - 2400/4800 BPS dedicated.
   - Can control up to 12 CRT displays or 9 displays and 3 printers which can be 714-122,
     714-123, 714-120, or 711-123. In any combination except that printer is addressed
     as logical unit 4, 8, or 12.
   - Data Protect/Control option not supported.
2. Intercom 4/CCP 1
   - Same as B.1. except control is required.
3. Intercom 4
   - 4473-7077/7072
   - Same as B.1. except dial-up only at 2000 BPS.

C. NOS CONFIGURATION NOTES
1. Network Products/CCI 3 (NOS Rw).
   - Same as B.1. except delay for transmitting.
2. Network Products/CCI 3 (NOS Rw).
   - Supported only by Transaction Facility 1.
   - 2000/8000 BPS dial-up, 2400/4800 dedicated.
   - Timeshare 2 (Telex), 1/1 2000.
   - Not supported.

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<td>82398000</td>
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<td>Impact Printer Station Reference Manual</td>
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E. CABLES
1. AT&T 201, 203, or equivalent data set required except for 255x local.
2. Data Set Cable (10 ft.) furnished with each 714-10 or 714-20.
3. Maximum 'Delay Chain' cable length from controller to last device is 1000 feet.
4. Display Station 1/6 Cable (50 Ft.) furnished with Display Station. Other standard
   lengths available via GSE.
5. Printer Station 1/6 Cable (10 Ft.) furnished with Printer Station. Other standard
   lengths available via GSE.
714-30 (ASCII) Multi-Station Display Controller

DIAL-UP CIRCUIT

Data Service (Computer) → MODEM → MODEM → 714-30 Master/Display Keyboard

MODEM → 714-30 → Slave Display Keyboard

MODEM → 714-125

Displays - Non Impact or Impact Printers (Max 15 devices)

System with Slave Displays and R. O. Printers

DEDICATED CIRCUIT (MULTI-DROP)

Data Source (Computer) → MODEM → MODEM → 714-30 Subsystem P. A.

MODEM → 714-30 Subsystem P. C.

MODEM → 714-30 Subsystem P. H.

MODEM → 714-30 Subsystem P. K.

OPTIONS/PERIPHERALS

- 714-30 (replacement) multi-buffer, multi-controller. Consists of controller and CRT/keyboard.
- 714-125, 11/24 line x 80 character CRT with data protect and control.
- 753-11 non-impact printer & 755-11/21 impact printer have individual addresses and can print without going through a CRT.
- See Note A.2.

A. GENERAL CONFIGURATION NOTES

1. Terminal controller has a maximum of 15 addressable peripherals in any combination of display or printers.
2. Cannot be configured with any 71X products not listed on this page.
3. AT&T 201, 203, or equivalent data set required except for 255X local.

B. NOS/NE CONFIGURATION NOTES

1. Intercom 5/CCT 3
   - Dial-up or dedicated; 2 wire or 4 wire, half duplex.
   - 2000/2400/4800 BPS dial-up.
   - 2400/4800/9600 BPS dedicated.
   - Can control up to 12 CRT displays or 9 displays and 3 printers which can be 714-125, 753-11, 755-11, or 755-21, in any combination except that printer is addressed as logical unit 4, 8, or 12.
   - Printers are physically connected to the 714-125 slave display. Therefore, the number of printers cannot exceed the number of 714-125's.
2. Intercom 4/CCT 3
   - Same as B.1, except data control is required.
3. Intercom 4 6671-7077/791
   - Same as B.1 except dial-up only at 2000 BPS.

C. NOS CONFIGURATION NOTES

1. Network Products/CCT 3 (NOS P4)
   - Same as B.1 except up to 15 addressable peripherals (maximum of 7 printers).
2. Network Products/CCT 3 (NOS P3)
   - Supported only by Transaction Facility 1.
   - 2000/2400 BPS dial-up, 2400/4800 dedicated.
3. Timeshare 2 (Telex), E/I 2000
   - Not supported.

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<td>62947400</td>
<td>RYLOPS</td>
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<td>62947500</td>
<td>RYLOPS</td>
<td>On-site Product/Maintenance Manual</td>
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E. CABLES

1. Data Set Cable (10 ft.) furnished with each 714-30.
2. Maximum cumulative I/O cable length is 1000 feet.
3. Display Station I/O Cable (50 ft.) furnished with Display Station.
4. Other cable lengths available via QRE.

FR143-10
A. GENERAL CONFIGURATION NOTES
   1. Uses 2741 Protocol and Correspondence Code.

B. NOS/BE CONFIGURATION NOTES
   1. Intercom 5/ CCI 3
      -Not Supported.
   2. Intercom 4/CCP 1
      -Not Supported.
   3. Intercom 4 - 6671, 7077/79
      -Not Supported.

C. NOS CONFIGURATION NOTES
      -Operates on dial-up 1200 BPS Asynchronous line, 2 wire, half duplex.
   2. Network Products/CCP 5 (not R3).
      -Same as C.1.
   3. Time Share 2 (Telex)
      -Operates at 3360 BPS on 6671-3, 6571, or 6671-2 with option 10295-1. 6676 with option 10294-1.

D. PUBLICATIONS
   (not applicable)

E. CABLES
   (not applicable)
A. GENERAL CONFIGURATION NOTES
1. Dial-up or dedicated line.
2. 2-line or 4-wire.
3. Operates at 2000/2400 BPS.
4. Half duplex mode (2 way alternate), ASCII or BCD.
5. Effective speeds of peripherals depend upon length of records, protocol and line speed.
   and may be less than rated speeds.
6. 4800 BPS available as option.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 3
   -Same as A, plus multidrop with up to 12 controllers.
2. Intercom 4/CCP 1
   -Same as B.
3. Intercom 4 - 6671-7077/791
   -Same as B.

C. NOS CONFIGURATION NOTE
1. Network Products/CCP 3 (NOS RV3).
   -Same as B.
2. Network Products/CCP 3 (NOS RV3).
   -Same as B.
3. E/I 200
   -Same as B, except only BCD support.

D. PUBLICATIONS
   SOURCE  TITLE
   RVLOPS  200 UT Hardware Reference Manual
   RVLOPS  200 UT Op. & Prog.

E. CABLES
   1. The following cables are provided with each 217-X
      Card Reader  15 ft. p/n 61094400
      Line Printer 15 ft. p/n 61068000
      Modem 30 ft. p/n 61023402

200 USER TERMINAL (217-X)

- OPTIONS
  - 217-11 Controller with 50x20 CRT, BCD code
  - 217-12 Controller with 80x13 CRT, BCD code
  - 222-11 Printer (300 LPM), BCD
  - 222-12 Printer (300 LPM), ASCII
  - 224-11 Reader (300 CPM), BCD
  - 224-12 Reader (300 CPM), ASCII
  - 217-13 Controller with 50x20 CRT, ASCII code
  - 217-14 Controller with 80x13 CRT, ASCII code
  - 222-13 Printer (300 LPM), ASCII
  - 222-14 Printer (300 LPM), ASCII
  - 224-13 Reader (300 CPM), ASCII
  - 224-14 Reader (300 CPM), ASCII
731-12 LOW SPEED BATCH TERMINAL

OPTIONS
- 731-10b IBM 2780 Emulation CW
- 731-107 Mode II CW

A. GENERAL CONFIGURATION NOTES
1. Dial-up or dedicated line.
2. 2-wire or 4-wire.
3. Operates at 2000/2400/4800 BPS
4. Half duplex mode (2 way alternate)
5. Effective speeds of peripherals depend upon length of records, protocol and line speed and may be less than rated.

B. NOS/DE CONFIGURATION NOTES
1. Intercom 5/CCP 3
   - Supported as in A.
2. Intercom 4/CCP 1
   - Supported as in A.
3. Intercom 4-671/7077/791
   - Supported in B.

C. NOS CONFIGURATION NOTES
1. Network Products/CCP 3 (NOS R4).
   - Supported as in A.
2. Network Products/CCP 3 (NOS R3).
   - Supported as in A.
3. E/1 200
   - Supported as in A except only BCL Support.

D. PUBLICATIONS

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<td>82147000</td>
<td>RVLOPS</td>
<td>{731-10b} IBM 2780 Emulation CW</td>
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<td>82163000</td>
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<td>{731-107} Mode II CW</td>
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<td>82163900</td>
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<td>{731/732-10} Op. and Prog.</td>
</tr>
<tr>
<td>82163800</td>
<td>RVLOPS</td>
<td>Display Station Hdw. Ref./CE</td>
</tr>
</tbody>
</table>

E. CABLES
1. The following cables are provided with each 731-12:
   - Data Set 10 ft. P/N 610223601
   - Printer 30 ft. P/N 610223802
   - Card Reader - Built In
732-12 MEDIUM SPEED BATCH TERMINAL

OPTIONS

+ 732-12
+ 600 LPM Printer
+ 500 CPE Reader
+ CRT/KD
+ 16k Bytes Mode IV CW
+ Terminal Controller
+ MODEM

A. GENERAL CONFIGURATION NOTES
1. Dial-up or dedicated line.
2. 2-wire or 4-wire.
4. Operates at 4600 BPS on 6671-3; 255X, 7077/791.
5. Effective speeds of peripherals depend upon length of records, protocol, line speed, and may be less than rated speeds.
6. Half duplex mode (2 way alternate).
7. Uses CUU/31 protocol.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 3
   - Supported as in A.
2. Intercom 4/CCI 1
   - Supported as in A.
3. Intercom 4/CCI2/7077/791
   - Supported as in A.

C. NOS CONFIGURATION NOTES
1. Network Products/CCI 3 (NOS R4),
   - Supported as in A.
2. Network Products/CCI 3 (NOS R3),
   - Supported as in A.
3. E/I 200
   - Supported as in A except only BCD support.

D. PUBLICATIONS

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<td>RL0PS</td>
<td>731/732-10 Mode II Op. &amp; Prog.</td>
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<td>RL0PS</td>
<td>Display Station Hdw./CE</td>
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<td>82187000</td>
<td>RL0PS</td>
<td>2700 Op. &amp; Prog.</td>
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<tr>
<td>82389000</td>
<td>RL0PS</td>
<td>731/732-12 Op. &amp; Prog. (Mode IV)</td>
</tr>
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</table>

E. CABLES

1. The following cables are provided with each 732-12.
   a. Data Set 10 ft.  41030201
   b. Printer 30 ft.  10353902
   c. Card Reader 30 ft. 10353902

x Reference 7077/791 and 255X/HCP configuration rules in communications section.
734 BATCH TERMINAL

PERIPHERALS & OPTIONS
- 734-103 300 CPM Card Reader
- 734-151 600 CPM Card Reader
- 734-203 300 LPM Line Printer
- 734-251 600 LPM Line Printer
- 734-11 IBM 2780 Emulation
- 734-12 IBM 3780 Emulation

A. GENERAL CONFIGURATION NOTES
1. Dial-up or dedicated line.
2. 2-wire or 4-wire.
5. Operates at 2500/2400/4000 BPS on 6675-2 or 6675-3.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 6/ CCI 3
   - Supported as in A.
2. Intercom W/CCP 2
   - Supported as in A.
3. Intercom 9 - 6671/7077/797
   - Supported as in A.

C. NOS CONFIGURATION NOTES
1. Network Products/CCP 3 (NOS R4)
   - Supported as in A.
2. Network Products/CCP 3 (NOS R3)
   - Supported as in A.
3. E/I 200
   - Supported as in A except only BCD Support.

D. PUBLICATIONS

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<tr>
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<td>62971400</td>
<td>RVLOPS</td>
<td>Batch Terminal Operators Guide (734-1)</td>
</tr>
<tr>
<td>62176100</td>
<td>RVLOPS</td>
<td>Keyboard Display Reference Manual</td>
</tr>
<tr>
<td>62175900</td>
<td>RVLOPS</td>
<td>Keyboard Display Operators Guide</td>
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<td>RVLOPS</td>
<td>Batch Terminal Reference Manual (Option 734-11)</td>
</tr>
<tr>
<td>59709100</td>
<td>RVLOPS</td>
<td>Line Printer Reference Manual</td>
</tr>
</tbody>
</table>

E. CABLES
1. The following cables furnished with each 734-1:
   - Data Set Cable (30 ft.)
   - Reader Cable (10 ft.) and Printer Cable (20 ft.)
   - Controller to Keyboard/Display Cable (5 ft.)
CYBER 18-XX \{200UT CONTROLWARE\}

CY18- 5, -10M, -20, -30 WITH 1890-1 OPTION

- 300 CPM Card Reader, 1829-30
- 600 CPM Card Reader, 1829-60
- 300 LPM Printer, 1827-30
- 600 LPM Printer, 1827-60
- 200UT Controlware Option, 1890-1

NOTE: See CY18 Section for Configuration details

A. General Configuration Notes
   1. Supported under NOS; NOS-EE only in 200UT emulating mode.

B. NOS/EE Configuration Notes
   Support is the same as 734 Batch Terminal

C. NOS Configuration Notes
   Support is the same as 734 Batch Terminal

D. Publications
   96746410 LBS Batch Controlware Reference Manual
   96746900 LBS Batch Controlware Installation Handbook

E. Cables
   \{See CY18 Configurator\}
27801-10 Batch (IBM) Terminal

OPTIONS

<table>
<thead>
<tr>
<th>27801-10</th>
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<tr>
<td>Includes:</td>
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<td>CRT/Display</td>
</tr>
<tr>
<td>Terminal</td>
</tr>
<tr>
<td>Controller</td>
</tr>
</tbody>
</table>

- 300 CPM Card Reader, 27801-11
- 600 CPM Card Reader, 27801-12
- 300 LPM Printer, 27801-21 (80COL)
- 300 LPM Printer, 27801-22 (13600CL)
- 600 LPM Printer, 27801-25 (13600CL)
- 200 U.T. Option, 27801-91

A. GENERAL CONFIGURATION NOTES
   1. Supported under NOS, NOS-BE, only in 200 U.T. emulating mode.

B. NOS/BE CONFIGURATION NOTES
   - Support is the same as 734 Batch Terminal.

C. NOS CONFIGURATION NOTES
   - Support is the same as 734 Batch Terminal.

D. PUBLICATIONS

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<td>RYLOPS</td>
<td>Batch Terminal Operators Guide (27801-10)</td>
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<td>82175000</td>
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<td>Keyboard Display Reference Manual</td>
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<td>82175900</td>
<td>RYLOPS</td>
<td>Keyboard Display Operators Guide</td>
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<td>62971100</td>
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<td>Batch Terminal Reference Manual (27801-91)</td>
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<td>Batch Terminal Operators Guide (27801-91)</td>
</tr>
<tr>
<td>56709100</td>
<td>RYLOPS</td>
<td>Line Printer Reference Manual</td>
</tr>
</tbody>
</table>

E. CABLES

- Data Set Cable (30') furnished Type A.
- Reader cable (10') and Printer cable (20') furnished with Controller.
- Controller to Keyboard/Display Cable (5') furnished.
**HASP MULTILEAVING TERMINALS**

- **Card Readers**
- **Line Printers**

**OPTIONS**
- Consoles
- Card Punch
- Plotter

(These terminals are produced by many vendors such as Data-100, Harris-Cope, etc.)

---

**A. GENERAL CONFIGURATION NOTES**
- Dependent on vendor.

**B. NOS/BE CONFIGURATION NOTES**
1. **INTERCON 5/CCI 3**
   - Speeds up to 34,200 bits per second.
   - The maximum configuration supported is 7 card readers, 7 printers, and a combination of card punches and plotters totaling not more than 7.
2. **INTERCOM 4/CCP 3**
   - Not supported.
3. **INTERCOM 4 - 667 1**
   - Not supported.

**C. NOS CONFIGURATION NOTES**
1. Network Products/CCP 3 (NOS R4)
   - Speeds up to 34,200 bits per second.
   - The maximum configuration supported is 7 card readers, 7 printers, and a combination of card punches and plotters totaling not more than 7.
2. Network Products/CCP 3 (NOS R3)
   - Not supported.
3. E/1 200
   - Not supported.

**D. PUBLICATIONS**
- Dependent on vendor.

**E. CABLES**
- Dependent on vendor.
2780/3780 TERMINALS

(The CYBER 18-XX with 1690-2, 1690-3 controlware options is described. In addition other vendors offer 2780/3780 compatible terminals)

A. GENERAL CONFIGURATION NOTES
   - See CY 18 section or vendor specifications

B. NOS/BE CONFIGURATION NOTES
   1. Intercom 5/ CCI 3
      - Supported using @async protocol at synchronous speeds of 2000/2400/4800/9600 BPS.
   2. Intercom 4/CCP 3
      - Not Supported
   3. Intercom 4 - 4471/7077/791
      - Not Supported

C. NOS CONFIGURATION NOTES
   - Not Supported

D. PUBLICATIONS
   - See CY18-XX or vendor

E. CABLES
   - See CY18 Configurator or Vendor Specifications.

NOTE: See CY18 section for configuration details.
III
GRAPHICS

777-2 HIGH SPEED CYBER GRAPHICS TERMINAL

OPTIONS
- 774-1 console work station.
- 1786-405 card reader or 1726-430.
- 1742-30 line printer or 1742-120 line printer.
- Memory expansion
- 1711, 711, or 713 TTY compatible.

A. GENERAL CONFIGURATION NOTES
1. Up to (2) 774-1 consoles on a controller.

B. NOS/BE CONFIGURATION NOTES
1. Intercom 5/CCI 7
   - Not supported.
2. Intercom 4/CCP 4
   - Not supported.
3. Intercom 4 - 473/4
   - Operates on 474, 1000 or 50,000 BPS wide band line, with 6673, 6674.
   - Uses 4-wire full duplex (two way alternate).
   - Uses Wide Band Protocol (EXPORT/IMPORT HS).
   - If additional 774-1 consoles or remote job entry peripherals are added, 4K memory
     increments should be added to reduce degradation of performance.
   - Operation with SCOPE/INTERCOM requires 777/1GS software package; in addition 39/1GS
     software gives added feature performance.
   - Requires a 415 card punch on the Host for Controlware deck maintenance.

C. NOS CONFIGURATION NOTES
   (not supported)

D. PUBLICATIONS

<table>
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<tr>
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<tbody>
<tr>
<td>82165700</td>
<td>RVLOPS</td>
<td>Console Reference Manual</td>
</tr>
</tbody>
</table>

E. CABLES
1. The following cables are provided with each 777-2.
   - Terminator Power Cable
   - Register Signal Cable
   - Shielded I/F cable (30 ft.)
   - Interrupt Cable (30 ft.)

<table>
<thead>
<tr>
<th>P/N</th>
<th>QTY</th>
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<tr>
<td>61256700</td>
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<td>61256800</td>
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<td>10352902</td>
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<tr>
<td>18201904</td>
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</tbody>
</table>
774-2 CYBER GRAPHICS TERMINAL

OPTIONS
- 774-2
  Includes:
  Console
  Maintenance
  Display

A. GENERAL CONFIGURATION NOTES
1. Adapts to 774, or 174 or 176-2 Processor, requires card reader (same configuration notes apply as on 777-2).

B. NOS/BE CONFIGURATION NOTES
1. INTERCOM 5/CCI 3
   - Not Supported
2. INTERCOM 4/CPI 3
   - Not Supported
3. INTERCOM 4 - 6673/2
   - Operates on 40-800 BPS or 50,000 BPS wideband line with 6673, 6174.
   - Uses 4-wire full duplex (two way alternate)
   - Uses wideband Protocol (Export/Import HS)
   - If additional 774-1 consoles or remote job entry peripherals are added, 4x memory increments should be added to reduce degradation of performance.
   - Operation with SCOPE/INTERCOM requires 777/165 software package; 30/165 software provides additional features.
   - Requires a 415/415-30 card punch on the Host for controlware deck maintenance.

C. NOS CONFIGURATION NOTES
   (Not supported)

D. PUBLICATIONS

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<tr>
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<td>RVLOPS</td>
<td>Console Reference Manual</td>
</tr>
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</table>

E. CABLES
1. The following cables are provided with each 774-2:
   - Terminator Power Cable
   - Register Signal Cable
   - Shielded 2/F cable (30 ft.)
   - Interrupt Cable (30 ft.)
241 GRID TERMINAL OR LCGT, GRAPHICS SUBSYSTEM

**OPTIONS**

- 248-2 expanded memory, 6142 12 bit
- 10182 expanded symbol set

**GENERAL CONFIGURATION NOTES**

1. Dial-up or dedicated line.
2. 2-wire or 4-wire, up to 12 drops.
6. Operates at 4800/9600 BPS dedicated line with 6471-2, 6471-3, and 255x/HCP.
8. 255x/HCP support local terminal configuration without modems up to 50 ft.
9. Maximum (10) ports, if any, are 4800 BPS with 6471-X.
10. Maximum (4) ports, if any, are 9600 BPS with 6471-X.
11. Half duplex mode (2 way alternate).
12. Uses SCU UT protocol.
13. Operates at 4800 BPS dialed-up with 255x.

Reference 255x/HCP configuration rules in communications section.

**NOS/NE CONFIGURATION NOTES**

1. Intercom 5/CC1 3
   - Support as indicated in A for 255x.
2. Intercom 4/CP
   - Support as indicated in A for 255x.
3. Intercom 4 - 6471
   - Support as indicated in A for 6471.

**NOS CONFIGURATION NOTES**

1. Network Products/CP3 (NOS NW).
   - Supported as indicated in A for 255x.
2. Network Products/CP 3 (NOS 13).
   - Not Supported.
3. E/I 200
   - Not Supported.

**PUBLICATIONS**

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<td>241-1 Op. &amp; Prog.</td>
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<td>RVLOPS</td>
<td>241-1 Hdw. Ref/CE Manual</td>
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<td>8213\1600</td>
<td>RVLOPS</td>
<td>Grid Term. Controller Book 1</td>
</tr>
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<td>8213\7000</td>
<td>RVLOPS</td>
<td>Grid Term. Controller Book 2</td>
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<tr>
<td>8213\9000</td>
<td>RVLOPS</td>
<td>Grid Term. Console Hdw. Ref. IEC</td>
</tr>
</tbody>
</table>

**CABLES**

1. Data set 25 feet #102310X provided with each 241.
A. GENERAL CONFIGURATION NOTES
   1. Synchronous Operation -
      a) Operates at 2000 dial-up on 2400 or 4800 BPS dedicated synchronous line (2 wire
         or 4 wire) with 4671.
   2. Asynchronous Operation -
      a) Operates at 110 to 300 BPS dial-up or dedicated line with 4671 or 4671a.
      b) Operates at 310, 300, 1200 BPS dial-up or up to 4600 BPS dedicated with 255X/CP3.1.

B. NOS/DE CONFIGURATION NOTES
   1. INTERCOM 4/ CCP 1
      - Support as indicated in A for 255X.
   2. INTERCOM 4/ CCP 1
      - Support as indicated in A for 255X.
   3. INTERCOM 4 - 4671
      - Support as indicated in A for 4671.

C. NOS CONFIGURATION NOTES
   1. Network Products/CP 3 (NOS R4)
      - Support as indicated in A for 255X.
   2. Network Products/CP 3 (NOS R3)
      - Supported only in asynchronous operation as indicated in A for 4671.
   3. Timeshare 2 (Telex)
      - Supported only in asynchronous operation as indicated in A for 4671.

D. PUBLICATIONS
   Contact vendor

E. CABLES
   Contact vendor
777-3 Voice Grade Cyber Graphics Terminal

Options
- 777-3, additional console work stations.
- 772-405, card reader or 1728-430.
- 1742-38 line printer or 1742-120 line printer.
- Memory expansion.
- 1711, TTY, 1713 or 713 TTY compatible.

MODEM

A. General Configuration Notes
1. Up to (2) 774-1 consoles on a controller.
2. Operates on switched lines to 4800 BPS, dedicated to 9600 BPS, with 6671 and 255X.
3. Uses half duplex (two way alternate) 2 or 4 wire.
4. Uses 300 UT (MORE 43) protocol.
5. If additional 774-1 consoles or remote job entry peripherals are added, 4K memory increments should be added to avoid degradation of performance.
6. Operation with INTERCOM requires 777/165 software package; 39/165 software provides additional features.
7. Requires a 415 card punch on the Host for controlware deck.

B. NOS/BE Configuration Notes
1. INTERCOM 5/CCI B
   - Supported as indicated in A for 255X.
2. INTERCOM 4/CCP 1
   - Supported as indicated in A for 255X.
3. INTERCOM 4 - 6671 - 7077/741
   - Supported as indicated in A.

C. NOS Configuration Notes
   (Not Supported)

D. Publications

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<tr>
<td>02665700</td>
<td>RVLOPS</td>
<td>Console Reference Manual</td>
</tr>
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</table>

E. Cables
1. The following cables are provided with each 777-3.
   - Terminator Power Cable
   - Register Signal Cable
   - Shielded J/F cable (30 ft.)
   - Interrupt Cable (30 ft.)