

3708 Network Conversion Unit Configuration Guide for McIDAS

(Man computer Interactive Data Access System)

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3708 Network Conversion Unit Configuration Guide

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OVERVIEW

This manual outlines the operating modes and network configurations possible with the 3708. It also describes the Monitoring and Control environment available with the 3708. A sample configuration session is included, and the present SNA to end-user device configurations for SSEC hardware is listed.

The 3708 provides a physical and logical interface for connecting ASCII end-user devices to an SNA network. It has 10 communication ports that can be defined for various network configurations and operating modes.

- **NOTE:** All questions and additional information required should be referenced to the *IBM 3708 Network Conversion Unit Planning and Installation manual #GA27-3766-1*.

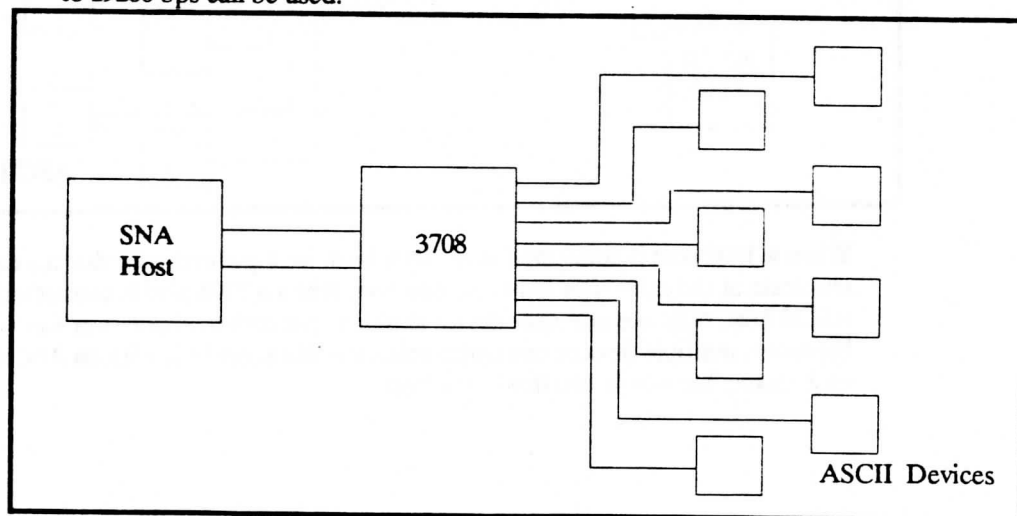
OPERATING MODES

The 3708 provides three modes of operation, which it can perform simultaneously for different network configurations:

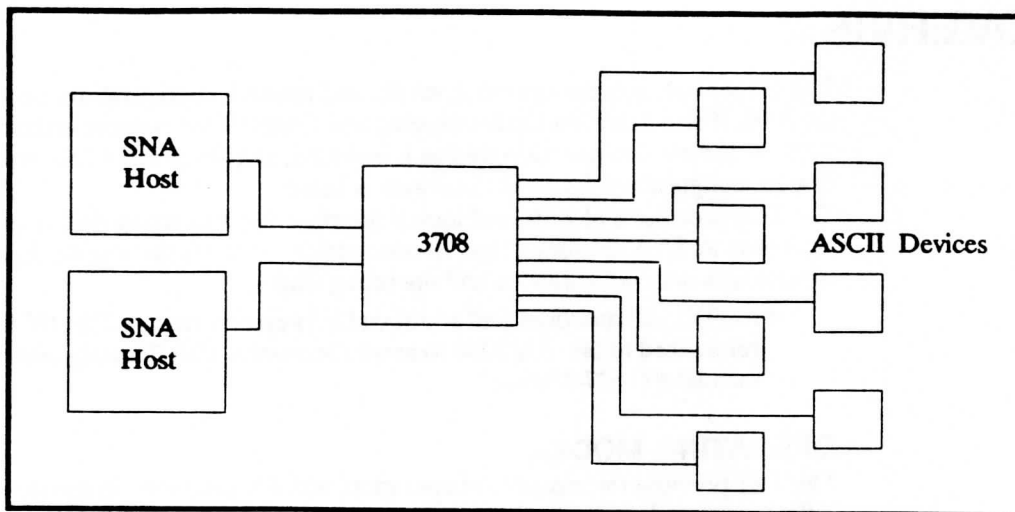
- 3270 applications running on an SNA host. The 3708 provides a *protocol conversion* mode to allow communication between an ASCII end-user device and 3270 applications running on an SNA host.
- Line-by-line applications running on an SNA host. The 3708 provides a *protocol enveloping* mode to allow communication between an ASCII end-user device and line oriented applications running on an SNA host.
- Applications running on an ASCII host. The 3708 provides an *ASCII pass-through* mode to allow communication between an ASCII display and application running on an ASCII host.

Network Configurations

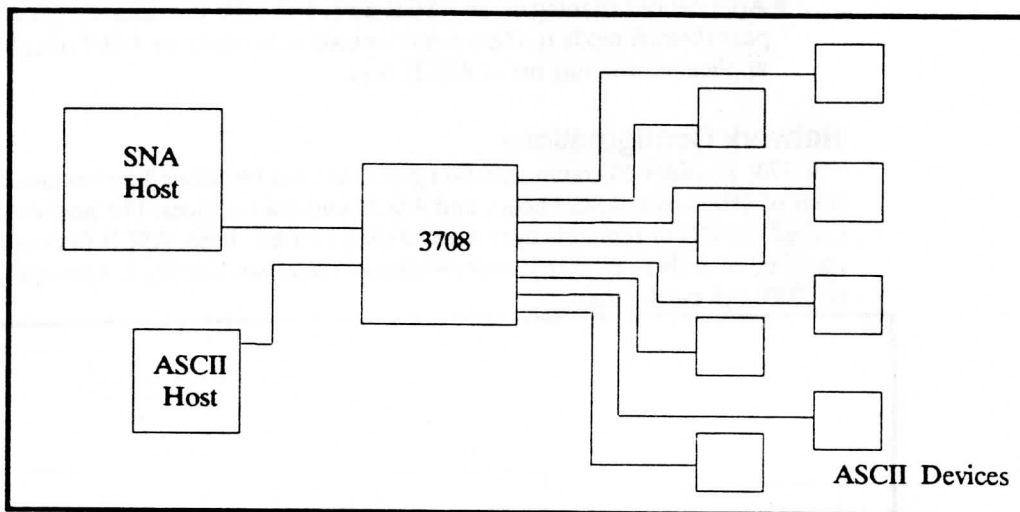
The 3708 provides 10 communication ports that can be defined for various configurations of SNA hosts, ASCII hosts, and ASCII end-user devices. The host may be attached directly or remotely over nonswitched (leased) lines. ASCII devices may be attached directly or remotely over switched or nonswitched lines. Line speeds of up to 19200 bps can be used.



As many as two ports can be defined for SNA hosts. Each of these ports can connect to separate hosts, or can connect to the same host.



As many as nine ports can be defined for ASCII hosts. Each of these ports can connect to separate hosts, or multiple ports can connect to the same host, depending on the host.



When a 3708 port is connected to an SNA host, multiple end-user devices can communicate at the same time over that one line. When a 3708 port is connected to an ASCII host, only one end-user device at a time can communicate over that line. However, multiple devices can communicate at the same time with an ASCII host if each device has a separate line to the host.

MONITORING AND CONTROLLING THE 3708

A control terminal can be used for monitoring and controlling the 3708. Any display that operates in protocol conversion mode can be a control terminal if it is logged on to the 3708 in control terminal mode. The 3708 allows only one display at a time to be logged on in this mode. The control terminal can be connected directly or remotely to the 3708.

The control terminal operator can perform the following functions:

Define or change:

- Host ports and host access
- Device ports
- Control terminal access
- Control terminal password
- Port passwords
- Translate table
- Keyboard mappings
- Printer access
- World Trade language to be used for 3708 logon
- Suppression of 3708 logon screens

Display information, such as:

- Configuration data
- Response time statistics
- Alert log and other information

Monitor the 3708 by checking:

- Port status
- Data transmitted on lines connected to the 3708

INSTALLATION PROCEDURES

This section describes how to install the 3708.

- **NOTE:** Before installing the 3708 into the network, setup procedures must be completed. Refer to the *IBM 3708 Network conversion Unit Setup* manual (shipped with the 3708).

Installation consists of the following steps:

- Step 1, Testing the 3708
- Step 2, Setting up the control terminal
- Step 3, Logging onto the control terminal
- Step 4, Entering the configuration data
- Step 5, Activating the configuration
- Step 6, Ending the control terminal session
- Step 7, Connecting the cables

Step 1. Testing the 3708

This procedure verifies that the 3708 is working correctly before the control terminal and other devices are connected.

- A. Make sure the power switch is in the off (o) position and disconnect any SNA host or end-user device cables.
- B. Connect the AC power cord to the back of the 3708 unit.
- C. Insert the 3708 Cartridge (with light on left) into the slot provided. (Note: The cartridge should not be removed unless it is necessary to solve an installation problem.)
- D. Turn on the 3708, the unit will automatically run a self-diagnostic test. After approximately 10 seconds, the base Not Ready light and the cartridge light begin blinking alternately. This means that the 3708 is working correctly.

STEP 2. Setting Up the Control Terminal

- A. Turn off the 3708.
- B. Connect the cable from the control terminal to the 3708 port 7 (direct connection).
- C. Turn on the 3708
- D. Turn on the control terminal.

The Terminal must be set for the following:

Interface	EIA 232C
Line Speed	9600bps
Parity	Odd
Bits per character (word length)	7
Stop bits	2

STEP 3. Logging Onto the Control Terminal

The logon screens should be displayed once the control terminal has been turned on. If the logon screen does not start, press the carriage return key.

- NOTE: At any time during logon and before the first control terminal screen (M100.0) is displayed, you can disconnect the control terminal from the 3708 by typing "####" and pressing the carriage return key. During logon, the control terminal operates in protocol enveloping (line-by-line) mode. In this mode, use the period key, carriage return key, or a defined line turnaround character as the ENTER key. You can also use the backspace function to correct typing errors. Other cursor positioning keys are not operational for logon.

SCREEN C1:

```

===== IBM 3708 ===== EC A58775 ===== RID 3708-001 88-
0000076 ===== PORT 07
C1: Type port password

```

To disconnect from the 3708, type "####."

Type the port password and press the ENTER key. For initial configuration, the password is "PASSWORD." During configuration this password can be changed to provide security.

SCREEN C2:

```

===== IBM3708 ===== EC A58775 ===== RID3708-001880000076 ===== PORT 07
C2: type the number of your terminal:

```

```

1-IBM3101          7-TV 950   17-DG D210
1A-IBM PC/FT COLOR 8-LS ADM3A   18-ROLM DISPLAY
1B-IBM PC/FT MONO  9-ADDS VP    19-BEEHIVE ATLO78
2-IBM 3161         10-HAZEL 1500  20-UDT01
2A.....           11.....    21.....
etc.....

```

For trademark acknowledgements, see 3708 publications

To disconnect from the 3708, type "####."

Type the number associated with the control terminal model in use (No. 8 - LS ADM3A in our case). Then press the ENTER key.

SCREEN C3:

```

===== IBM3708 ===== ECA58775 ===== RID3708-001880000076 ===== PORT 07
C3: Type the number of the desired connection:

```

```

1-TSOHOST
2-VMHOST
c-Control Terminal

```

To disconnect from the 3708, type "####."

The next screen asks for the connection number. The only accepted response is to type a "C" to request access to the control terminal functions.

SCREEN C5:

```

== == == IBM3708 == == ECA58775 == == RID3708-001 88-0000076 == == PORT 07
C5: Type control terminal password

```

To disconnect from the 3708, type "####."

Type in the control terminal password and press the ENTER key. For initial configuration, the password is "CONTROL."
The following screen is then displayed.

```

M100.0
                                3708 MAIN MENU

COMMAND          DESCRIPTION
 1      ALERTS,ERROR-LOG,RESPONSE TIME MONITOR-DISPLAY
 2      CONFIGURATION & PASSWORD DEFINITION
 3      SERVICE AIDS
 4      TERMINATE CONTROL TERMINAL SESSION
 5      SYSTEM RESTART
 6      E C H I G H L I G H T S

TYPE COMMAND NUMBER AND PRESS "ENTER"
== > _

```

The terminal is now logged on as the control terminal. The control terminal session now operates in protocol conversion (full-screen) mode. Use the ENTER key now in place of any other enter key function sequence.

Step 4. Entering the Configuration Data

You can configure the 3708 from the 3708 Configuration & Password Menu (screen M120.0) for device attachment. Use the information gathered during configuration planning to complete the configuration screens. If you have not already planned the configuration parameters, see the Configuration and Password Definition chapter of this manual or Chapter 12 (Configuration Screen descriptions) of the *IBM 3708 Network Conversion Unit Planning and Installation* manual for a complete description of the configuration process.

Step 5. Activating the Configuration

To activate the configuration, do one of the following:

- A. Turn the 3708 off and back on again.
- B. Restart the 3708 (select option 5 on the Main Menu) using the control terminal.

Notes: 1. If you configure the 3708 from a remote, switched connection, restarting the 3708 causes the line to disconnect. Reestablish the connection to perform any other functions.

2. The configuration data is stored in nonvolatile (EEPROM) memory in the 3708 base, not in the cartridge. You can replace the cartridge or turn off the 3708 and turn it back on again without reconfiguring the 3708.

3. Activating the configuration ends the control terminal session. Continue with "Step 7. Connecting the Cables".

Step 6. Ending the Control Terminal Session

● Note: For security reasons, end the control terminal session when you finish using the terminal.

The screen sequence for ending a control terminal session is as follows:

1. From the 3708 Main Menu (screen M100.0) type a 4 to select the Terminate Control Terminal Session task and press the ENTER key. The screen will prompt you to type "4" again to exit the session.

2. Type a 4 and press the ENTER key to confirm that you want to end the session.

The terminal will no longer function as a Control terminal to the 3708.

3. Do one of the following:

Select control terminal operation again as follows:

- a. Type "c".
- b. Press the ENTER key.

Select a host as follows:

- a. Type the number that corresponds to the host.
- b. Press the ENTER key.

Log off from the 3708 as follows:

- a. Type four # symbols.
- b. Press the ENTER key.

Step 7. Connecting the Cables

Connect the cables and test the 3708 as follows:

1. Turn off the 3708.

2. Use the completed 3708 network forms to make labels for each cable as follows:

a. Obtain a cable with the desired type and length.

The cable type and length are written on the factory labels (IBM cables only) at each end of the cable.

b. Using a self-adhesive strip or similar material, make two labels that contain the following information from the form:

- The 3708 name
- The device name
- The port number

c. Attach one of the new labels to the 3708 end of the cable.

This is the end that has a V.11 (EIA 422A) or V.24 (EIA 232C) on the factory installed label.

d. Attach the other new label to the device end of the cable (opposite the 3708).

3. Connect the 3708 end of the cable to the port that is identified on the label. Connect the device end of the cable to the device that is identified on the label. Secure the cable by tightening the connector screws.

4. Repeat steps 1 through 3 for all the cables listed on the network form.

5. Turn on the 3708. The 3708 will automatically run a self-diagnostic test.

Do not press the Test/Normal switch.

After approximately 10 seconds, the base Not Ready Light and the cartridge light will begin blinking alternately or both will be turned off. This means that the 3708 is working correctly. Refer to Chapter 2, "Using Symptoms to Solve a Problem" of the *IBM 3708 Network Conversion Unit Problem Determination* manual for more information about the light sequences.

- Note: If you have any problems, refer to the *IBM 3708 Network Conversion Unit Problem Determination* manual.

CONFIGURATION & PASSWORD DEFINITION

From screen M100.0 (3708 MAIN MENU) type a "2" to select the CONFIGURATION & PASSWORD DEFINITION task and press the ENTER key. Screen M120.0 is then displayed. This screen lets you select the different configuration tasks for entering the configuration data.

M100.0	
3708 MAIN MENU	
COMMAND	DESCRIPTION
1	ALERTS,ERROR LOG,RESPONSE TIME MONITOR-DISPLAY
2	CONFIGURATION & PASSWORD DEFINITION
3	SERVICE AIDS
4	TERMINATE CONTROL TERMINAL SESSION
5	SYSTEM RESTART
6	E C H I G H L I G H T S

TYPE COMMAND NUMBER AND PRESS "ENTER"

==>

Although the 3708 Configuration and Password Menu allows you to select one of seven different tasks, this document will only focus on the Host and Port Definition commands (2 and 3).

M120.0	
3708 CONFIGURATION & PASSWORD MENU	
COMMAND	DESCRIPTION
1	CHANGE PASSWORDS
2	HOST DEFINITION
3	PORT DEFINITION
4	PRINTER AUTHORIZATION MATRIX
5	USER DEFINED TERMINAL TABLES
6	USER DEFINED TRANSLATE TABLE
7	GENERAL DEFINITION

TYPE COMMAND NUMBER AND PRESS "ENTER" OR PRESS "PF2" TO QUIT

==>

4BMYJOB P00

- Note: The screen prompts you to enter data or occasionally displays "Press 'PF2' to quit or 'PF6' to save data." The PF2 or PF6 functions can be entered by selecting ESC and then a 2 or a 6. The PF6 function is the only one that saves configuration data. If you choose the PF2 function, all information entered for the port is lost. To modify fields without losing data, continue pressing the ENTER key until a message that tells you to press PF6 is displayed; then choose the PF6 function to save the data.

Defining a Port for SNA Host

This section describes the screen sequence for defining a port for an SNA host.

- WARNING: After defining a host port, do not use the Port Definition (option 3 on the Configuration and Password Menu) to redefine the port. This will destroy any host configuration for that port.

To define an SNA host port, select option 2, Host Definition, from screen M120.0. Screen M100.1 will ask you to type a port number. If you are configuring the first SNA host (SNA host A), we recommend you choose port 10. If you are configuring the second SNA host (SNA host B), we recommend you choose port 9.

```

M100.1
                                3708 PORT NUMBER

TYPE THE PORT NUMBER YOU WISH TO USE
PORT : XX

PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT

4BYMYJOB                                P00

```

Screen M100.2 is displayed. This screen allows you to enter a Y or N in response to port exclusion. Choose Y and the port is excluded from the configuration and is not operational. (Choose the Y option for any port not used.) Choose N and the port is not excluded from the configuration and is operational.

```

M100.2
                                3708 PORT XX LOGON OPTIONS

TYPE ANY DESIRED CHANGES :
X          PORT EXCLUDED
X          LOGON SCREENS EXCLUDED
00         TERMINAL TYPE ID
IF YOU ANSWERED "N" TO LOGON SCREENS EXCLUDED, DO YOU WANT :
X          THE PORT PASSWORD SCREEN (C1)
X          THE TERMINAL TYPE SCREEN (C2)
X          THE HOST SELECTION SCREEN (C3)
X          THE LOGON INDICATION SCREEN (C4)
X          SHORT LOGON SCREENS
X          CONTROL TERMINAL ACCESS (APPLIES IF C3 IS SELECTED)
0          LANGUAGE CODE
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT
Message Area (3 lines)

4BYMYJOB                                P00

```

Assuming you have NOT excluded the port (by answering with a Y), the next screen is the SNA Host Definition C122.1 screen. The 3708 supports a maximum of two SNA hosts. The first SNA host is A, the second SNA host is B.

```

C122.1
                                3708 HOST DEFINITION FOR PORT XX

TYPE ANY DESIRED CHANGES :

                                00          HOST-A PORT          00          HOST-B PORT

                                00          PORT
                                IBMHOSTA      HOST NAME
                                0000000000    HOST KEYBOARD SOURCE FIELD
                                0000000000    HOST PRINTER SOURCE FIELD

PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT
4BYMYJOB                                P00

```

HOST-A Port [00-10]

If you have already configured SNA host A, verify that Host-A Port contains the port number for host A. If you have not configured SNA host A, type the port number to which host A is connected. (Port 10 is recommended for SNA host A.) Type 00 in the field if SNA host A is not used.

- NOTE: Do not enter an ASCII host port number in this field.

HOST-B Port [00-10]

If you have already configured SNA host B, verify that Host-B Port contains the port number for host B. If you have not configured SNA host B, type the port number to which host B is connected. (Port 9 is recommended for SNA host B.) Type 00 in the field if SNA host B is not used.

- NOTE: Do not enter an ASCII host port number in this field.

Port [01-10]

The port number you are defining is displayed on the configuration screen. You cannot change this field.

Host Name

Type any (up to 8-character) name for this field. The host name will be displayed for downstream ports on the 3708's Host Selection screen (C3).

Host Keyboard Source Field [1,0]

1 - The host is allowed to communicate with a keyboard device on the specified ports.
0 - The host is not allowed to communicate with a keyboard device on the specified ports.

Type a 1 or 0 for each port. The leftmost position is for port 1; the rightmost position is for port 10, as follows:

1 2 3 4 5 6 7 8 9 10

- NOTE: If the ports contain hosts or printers instead of keyboard devices, choose 0.

Host Printer Source Field [1,0]

1 - The host is allowed to communicate with a printer on the specified port. This printer must be defined for system or shared mode.

0 - The host is not allowed to communicate with a printer in system or shared mode on the specified port.

Type a 1 or 0 for each port, the leftmost field position is for part 1; the rightmost field position is for port 10.

- NOTE: You can assign a printer to only one SNA host and not to an ASCII host.

SNA Host Definition (Screen C122.2)

This screen continues the port definition for SNA hosts.

C122.2		3708 HOST DEFINITION FOR PORT XX	
TYPE ANY DESIRED CHANGES :			
PU_NAME		SNA PU NETWORK NAME	
LN_NAME		SNA PU LINE NETWORK NAME	
00		STATION ADDRESS	
0		NRZI DATA ENCODING	
0		PERMANENT RTS	
00		LINE SPEED	
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT			

SNA PU Network Name [8 characters]- optional

The 3708 uses the SNA PU Network Name in alerts sent to Net View or NPDA. This name can be up to eight characters long.

Station Address [01-FE]

Type the SDLC link level address. The address (ADDR) parameter is in the VBUILD = CA macro for the PU parameter, which defines the 3708.

NRZI Data Encoding [1,0]

1-NRZI

0-NRZ

This is the electronic signaling technique used for data transmission. See the glossary for a definition of NRZI. This option must match the definition at the SNA host.

Permanent RTS (Request to Send) [1,0]

1 - The 3708 leaves RTS active at all times. Only use this option for a full duplex point-to-point line (the 3708 is the only secondary control unit on the line).

0 - The 3708 raises RTS only when transmit is requested (the 3708 is on a multidrop line).

Line Speed [00-14]

00 - External clocking

01 - 110 bps

08 - 2400 bps

02 - 150 bps

09 - 3600 bps

03 - 200 bps

10 - 4800 bps

04 - 300 bps

11 - 7200 bps

05 - 600 bps

12 - 9600 bps

06 - 1200 bps

13 - 14400 bps

07 - 1800 bps

14 - 19200 bps

- NOTE: If the host system or modems provide a clocking signal, you must define 00 for the upstream line speed. Use the values 01-14 only if you want the 3708 to provide clocking.

Line Type [D,L]

D - If the 3708 is connected directly to the SNA host, you should define D for the host's line type.

L - If the 3708 is connected remotely to the SNA host (by modem), you should define L for the host's line type.

Transmit UNBIND or TERM-SELF for session security [U,T]

U - The 3708 will transmit an UNBIND(0F) to the SNA host to ensure session integrity when the downstream device is disconnected in the middle of a session. U is recommended as the default option.

T - The 3708 will transmit a TERM-SELF (4C) to the SNA host to ensure session integrity when the downstream device is disconnected in the middle of a session. T is recommended for those ports that are supporting CICS users

Defining a Port for an ASCII Host

M120.0	
3708 CONFIGURATION & PASSWORD MENU	
COMMAND	DESCRIPTION
1	CHANGE PASSWORDS
2	HOST DEFINITION
3	PORT DEFINITION
4	PRINTER AUTHORIZATION MATRIX
5	USER DEFINED TERMINAL TABLES
6	USER DEFINED TRANSLATE TABLE
7	GENERAL DEFINITION
TYPE COMMAND NUMBER AND PRESS "ENTER" OR PRESS "PF2" TO QUIT	
== >	
4BMYJOB	P00

This section describes the screen sequence for defining a port for an ASCII host. To define an ASCII host port, select option 2, HOST DEFINITION, from screen M120.0. The steps required to define the ASCII host port are identical to the steps taken for defining a SNA host port. The Port Number Options (M100.1) screen is displayed and will prompt you for a port number.

M100.1	
3708 PORT NUMBER	
TYPE THE PORT NUMBER YOU WISH TO USE	
PORT : XX	
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT	
4BMYJOB	P00

The Port Logon Options (M100.2) screen and a prompt to include or exclude the port will be displayed. After selecting the exclusion option the ASCII Host Definition (C122.1) screen will be displayed. (This screen will only be displayed if the port is not excluded and the port number is not a previously defined SNA host port number.)

M100.2	
3708 PORT XX LOGON OPTIONS	
TYPE ANY DESIRED CHANGES :	
N	PORT EXCLUDED
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT	
4BMYJOB	P00

ASCII Host Definition (Screen C122.1)

This screen is used for defining an ASCII host. The 3708 supports up to nine ASCII hosts.

```

C122.1
                                3708 HOST DEFINITION FOR PORT XX
TYPE ANY DESIRED CHANGES :

      00      HOST-A PORT      00      HOST-B PORT

      00      PORT
      IBMHOSTA      HOST NAME
      0000000000      HOST KEYBOARD SOURCE FIELD
      0000000000      HOST PRINTER SOURCE FIELD

PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT

4BMYJOB                                P00

```

- **WARNING:** After defining a host port, do not use the Port Definition (option 3 on the Configuration and Password Menu) to redefine the port. This will destroy any host configuration for this port

This screen displays the Host-A and Host-B port numbers and includes the fields to designate the ASCII host port, host name, host keyboard and printer source fields. Refer to the previous (C122.1) screen discussion for these field qualifiers.

```

C122-3
                                3708 ASCII HOST DEFINITION FOR PORT X
TYPE ANY DESIRED CHANGES :

      0      SET HOST TERMINATION SEQUENCE
      000000      HOST TERMINATION SEQUENCE(IN ASCII)
      00      LINE SPEED

PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT

4BMYJOB                                P00

```

The 3708 recognizes the port numbers defined in previous screens and will advance the user to screen C122.3 if an ASCII host is being defined. This screen is only displayed for an ASCII host definition.

Set Host Termination Sequence [1,0]

Depending on the field qualifier entered; after a single "BREAK", the 3708 breaks the logical connection between that port and the ASCII host. This enables another (or the same) port to communicate with the host. The terminal will be returned to the Host Selection screen (C3).

- 1 - The 3708 recognizes the Host Termination Sequence.
- 0 - The 3708 does not recognize the Host Termination Sequence.

Host Termination Sequence (in ASCII) [00-7F]

Enter the hexadecimal representation of three ASCII characters to define the termination key sequence for the ASCII host connected to the port. Let this value default to 000000 if the Set Host Termination Sequence field is 0.

Line Speed [01-14]

01-110 bps	08-2400 bps
02-150 bps	09-3600 bps
03-200 bps	10-4800 bps
04-300 bps	11-7200 bps
05-600 bps	12-9600 bps
06-1200 bps	13-14400 bps
07-1800 bps	14-19200 bps

The line speed of the ASCII host connection and all end-user connections which communicate with that ASCII host should be the same.

PORT DEFINITION FOR END-USER DEVICES

This section describes the screen sequence used for defining a 3708 port for an end-user device.

M120.0	
3708 CONFIGURATION & PASSWORD MENU	
COMMAND	DESCRIPTION
1	CHANGE PASSWORDS
2	HOST DEFINITION
3	PORT DEFINITION
4	PRINTER AUTHORIZATION MATRIX
5	USER DEFINED TERMINAL TABLES
6	USER DEFINED TRANSLATE TABLE
7	GENERAL DEFINITION
TYPE COMMAND NUMBER AND PRESS "ENTER" OR PRESS "PF2" TO QUIT	
==>_	

After selecting Port Definition (option 3 from the Configuration and Password Menu) the Port Number (M100.1) screen will be displayed. Enter the port number associated with the port to be configured.

M100.1	
3708 PORT NUMBER	
TYPE THE PORT NUMBER YOU WISH TO USE	
PORT : XX	
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT	
4BYMYJOB	P00

3708 Port Logon Options (Screen M100.2)

- NOTE: We recommend all ports be configured at least to the Port Logon Options level (screen M100.2). If the port is not configured for use then a Y should be entered on the Port Excluded line for screen M100.2.

M100.2	
3708 PORT XX LOGON OPTIONS	
TYPE ANY DESIRED CHANGES :	
N	PORT EXCLUDED
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT	
4BYMYJOB	P00

For all ports other than port 7 (configuration control terminal port) the Logon Screens Excluded option should be answered with a Y. The Terminal Type ID is normally left in the default setting of 01. Refer to configuration Screen Descriptions, Chapter 12 of the *3708 Planning and Installation* manual, for a more detailed coverage of this screen.

End-User Device Definition (Screen C123.1)

This screen should be checked to see if the port number is the same as the port being defined. Most of the other screen information will not need to be modified from the default port definition settings.

```

C123.1
                                3708 DEFINITION FOR PORT X
TYPE ANY DESIRED CHANGES :
  0                                PORT NUMBER
CU_NAME                          DEVICE NAME
LN_NAME                           DEVICE LINE NAME

SNA LU NETWORK NAME              SNA LU DEVICE NUMBER
      LU_ANAME                    00  KEYBOARD - HOST A
      LU_BNAME                    00  KEYBOARD - HOST B
      LU_PNAME                    00  PRINTER ON -
                                   PREASSIGNED HOST
PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT
4BMYJOB                           P00

```

After monitoring screen C123.1 for correct settings press ENTER to continue to the next screen.

End-User Device Definition (Screen C123.2)

```

C123.2
                                3708 DEFINITION FOR PORT X
TYPE ANY DESIRED CHANGES :

----- PASSWORD                                0      RECEIVE XON/XOFF
0      PASSWORD RETRY LIMIT                    0      TRANSMIT XON/XOFF
00     LINE SPEED                              0      DEVICE CLASS
X      LINE TYPE                               0      OPERATING MODE
0      DISCONNECT                             0      INTERFACE TYPE
000000 TRANSLATE OPTION                        0      PARITY
X      RECEIVE QUEUE SIZE
0      RECEIVE QUEUE PACING THRESHOLD
      (0 = NONE,1 = 50%,2 = 75%)

PRESS "ENTER" TO CONTINUE OR "PF2" TO QUIT

4BMYJOB                                P00

```

This screen continues the port definition for direct and remote connection devices. A description of all line entries is discussed below.

Password

Type the password (up to 8 characters) for the port being defined. All ports except port 7 should be left blank (no password). The password for port 7 is the default setting "PASSWORD."

Receive XON/XOFF [1,0]

1 - The device uses XON and XOFF to pace the 3708. The 3708 stops sending data to the device when it receives an XOFF character and starts sending data to the device when it receives an XON character.

0 - The device does not use XON and XOFF to pace the 3708. If the 3708 receives an XON or XOFF character from the terminal, the 3708 treats the characters as data and passes them to the host application.

Password Retry Limit [0-9]

Type the number of retries that are allowed when a user enters a port password.

Transmit XON/XOFF [1,0]

(Relative to the Receive XON/XOFF field above.)

1 - The device accepts XON and XOFF characters to allow the 3708 to pace the device. The device stops sending data to the 3708 when it receives an XOFF character and starts sending data when it receives an XON character. The device must be able to accept the XON/XOFF characters as pacing indicators.

0 - The device does not accept XON and XOFF characters to allow the 3708 to pace the device.

Line Speed [01-14, 19]

01 - 110 bps	08 - 2400 bps
02 - 150 bps	09 - 3600 bps
03 - 200 bps	10 - 4800 bps
04 - 300 bps	11 - 7200 bps
05 - 600 bps	12 - 9600 bps
06 - 1200 bps	13 - 14400 bps
07 - 1800 bps	14 - 19200 bps
19 - autobaud (for speeds from 110 to 9600 bps).	

Device Class [1-4]

- 1 - Keyboard display
- 2 - Keyboard printer
- 3 - Printer
- 4 - Keyboard display with printer (multiple LU config.)

- NOTE: Define a keyboard printer that is operating in protocol conversion mode as a printer (option 3), and one operating in protocol enveloping mode as a keyboard printer (option 2).

Line Type [S,L]

- S - Switched or remote connections
- L - Leased and direct connect lines

Operating Mode [0-2]

- 0 - Protocol enveloping only
- 1 - Protocol conversion only
- 2 - Dynamic

- NOTE: Dynamic allows the mode to be determined by the BIND that is sent from the host. If this port is used with a control terminal, specify 1 or 2. Refer to the *IBM 3708 Network Conversion Unit Description* manual for more information about modes of operation.

Disconnect [0-3]

Usually, when the end user logs off from a host application, the host program transmits an UNBIND command to the 3708. This option and the UNBIND type determine whether the device is disconnected. If the device is disconnected, the end user must reconnect to the 3708 and log on. If the device is not disconnected, the end user is returned to the 3708 Host Selection Menu (C3), if it has been defined.

- 0 - The device is unconditionally disconnected if an UNBIND is sent to the 3708 from the host.
- 1 - The device is not disconnected at UNBIND.
- 2 - The device is conditionally disconnected if the UNBIND sent to the 3708 from the host is other than 02 or 03.
- 3 - The device is conditionally disconnected if the UNBIND sent to the 3708 from the host is 01, 02, or 03.

Interface Type [1,0]

- 1 - EIA 422A
- 0 - EIA 232C

Translate Option [-- -- --]

The first two blanks are for transmit and receive translate options for protocol enveloping. The first blank defines the translation used for data transmitted from the 3708 to the ASCII device. The second blank defines the translation used for the data received from the ASCII device. The options normally encountered are the following:

- 0 - No translation
- 1 - Default translate table (appendix L of *3708 Planning and Installation Manual*)

The third through sixth blanks should be set to 1s for all port definitions. Refer to Default Translate Table L1 or Chapter 12 for further information.

Parity [1-6]

- 1 - None
- 2 - Odd
- 3 - Even
- 4 - Space
- 5 - Mark
- 6 - Auto parity (only even and odd can be detected; for speeds from 110 to 9600 bps)

Receive Queue Size [S,M,L]

The receive queue contains data sent from a device to the 3708. Type the desired size of the receive queue for this port:

S - 79 bytes
 M - 519 bytes
 L - 1079 bytes

Type an S for printers and for interactive applications that transfer small blocks of data from the terminal through the 3708. Type an M or L for applications that do not employ XON/XOFF pacing and which transfer larger blocks of data through the port (for example, file transfer applications).

Receive Queue Pacing Threshold [0-2]

This option is used to determine whether or not the 3708 will transmit XOFFs and XONs to a downstream device based on the number of unprocessed characters in the 3708 receive queue. If receive queue pacing is enabled, the XOFF pacing threshold may be set at either 50% or 75% of the configured size of the 3708's receive queue (see Receive Queue Size).

- 0 - The 3708 will not pace based on its receive queue.
- 1 - The 3708 will transmit an XOFF when its receive queue is 50% full. An XON will be transmitted when the receive queue is 25% full.
- 2 - The 3708 will transmit an XOFF when its receive queue is 75% full. An XON will be transmitted when the receive queue drops to 25% full.

● NOTE: This field is ignored if TRANSMIT XON/XOFF = 0. For remote service, you must configure at least one switched port for TRANSMIT XON/XOFF = 1 and RECEIVE QUEUE PACING THRESHOLD = 0.

Connection Device Definition (Screen C123.3)

This screen continues the port definition for a direct or remote connection device.

```

C123.3
                                3708 DEFINITION FOR PORT X
TYPE ANY DESIRED CHANGES :
0          BITS/CHARACTER
0          NUMBER OF STOP BITS
00000     INACTIVITY TIME OUT
00000     TRANSMIT DATA THRESHOLD      0  AUTO ON-HOOK
00000     TRANSMIT ERROR THRESHOLD     0  CDSTL
00000     RECEIVE DATA THRESHOLD      0  SEND ANSWERTONE
00000     RECEIVE ERROR THRESHOLD

000       DELAY AFTER FORMFEED
000       DELAY AFTER CARRIAGE RETURN
000       MAXIMUM PLATEN LENGTH

PRESS 'ENTER' TO CONTINUE OR 'PF2' TO QUIT
4BMYJOB                                     P00
  
```

Bits/Character [7,8]

7-Possible for all modes

8-Possible only for protocol enveloping mode

● NOTE: For 8-bit data to support LU type 1 SCS transparency, configure for 7-bit data and no parity check.

Number of Stop Bits [1,2]

Type the number of stop bits. The number of stop bits must match the configuration of the device on this port.

Inactivity Time-out [00000-65535]

Type the amount of time for a connected but inactive port to remain connected. The value is in half seconds. Type 00000 for no inactivity time-out.

- NOTE: This field is for switched lines and for EIA 422A connections only and is a way to reduce line costs. Type 00000 for nonswitched lines.

Transmit Data Threshold [00000-65535] optional

Type the transmit data threshold count which, when exceeded, is sent unsolicited to the SNA host. Type 00000 to disable.

Auto On-Hook [1,0]

1 - Auto on-hook is a security feature the 3708 provides for switched lines. The 3708 monitors carrier detect (CD), and breaks the connection when CD is dropped.

0 - The 3708 does not disconnect the port when CD is dropped.

- NOTE: This field is only for switched full duplex physical facility lines with Permanent Request to Send (PRTS). Type a 0 for nonswitched lines.

Transmit Error Threshold [00000-65535] - optional

Type the transmit error threshold count which, when exceeded, is sent unsolicited to the host. Type 00000 to disable.

CDSTL (Connect Data Set to Line)[1,0]

1 - The 3708 raises data terminal ready (DTR) only after a ring is detected from the modem (RI is activated).

0 - The 3708 raises data terminal ready (DTR) as soon as the port is enabled.

- NOTE: This field is for switched lines only. Type a 0 for nonswitched lines. Choose 1 if the modem will not answer an incoming call when the DTR line is already active from the 3708.

Receive Data Threshold [00000-65535] - optional

Type the receive data threshold count which, when exceeded, is sent unsolicited to the host. Type 00000 to disable.

Send Answer tone [1,0]

1 - The modem does not provide an answer tone. The 3708 sends an answer tone for 3 seconds.

0 - The modem provides an answer tone.

- NOTE: This field is for switched lines only. Type a 0 for nonswitched lines.

Receive Error Threshold [00000-65535] - optional

Type the receive error threshold count which, when exceeded, is sent unsolicited to the host. Type 00000 to disable.

Delay after Formfeed [000-255]

Type the number of DEL(7F) characters the 3708 should transmit to the device after sending a formfeed to allow time for the printer element to move to a new position.

Type 000 if you are using a buffered printer.

Delay after Carriage Return [000-255]

Type the number of DEL(7F) characters the 3708 should transmit to the device after sending a carriage return. This allows time for the printer element to move back to the left margin.

Maximum Platen Length [000-132]

Type the platen length of the printer in characters. This value is the default for the maximum print position, which is the maximum number of characters that fit on one (horizontal) line of the printer.

Protocol Enveloping for an End-User Device (Screen C123.4)

```

C123.4
                                3708 PROTOCOL ENVELOPING FOR PORT X
TYPE ANY DESIRED CHANGES :
0          FULL DUPLEX LINE           0 FULL DUPLEX CONTROL UNIT
0          IGNORE PARITY              6F PARITY ERROR SUB. CHAR.
0          ECHOPLEX                   4F ATTENTION KEY SUB. CHAR.
0          DELAY AFTER RCPT.OF CR.    0 RECOG. TERM ATTENTION
0          ALLOW TERMINAL BREAK       0 DELETE RUBOUT CHARACTER
000       LINE QUIET TIME             0 RECOG.SYS.REQ.SIMULATION
000       TEXT TIME OUT              0 PERM. REQUEST TO SEND
0D00000000 TURN AROUND CHARACTERS
00000000000000000000000000000000 SEND READ PROMPT

PRESS 'ENTER' TO CONTINUE OR 'PF2' TO QUIT
4BMYJOB                                P00

```

This screen continues the port definition for a connected device if it is to be used with protocol enveloping.

Full Duplex Line [1,0]

- 1 - Full duplex
- 0 - Half duplex

This field defines the line from the device to the 3708 as either a full or half duplex facility.

- NOTE: Many modems provide a full duplex communication facility over two-wire telephone lines.

Full Duplex Control Unit [1,0]

This option defines whether communications to the device is in full or half duplex mode.

- 1 - Full duplex
- 0 - Half duplex

If the line is half duplex, the control unit must be in half duplex mode. Terminals are normally configured as half duplex control units even when operating in a full duplex capacity.

- NOTE: This field must be set to half duplex for the BREAK function to operate in NTO-like mode.

Ignore Parity [1,0]

1 - Parity errors are ignored on characters from the device.

0 - Parity errors are recognized.

The 3708 replaces the data byte received with bad parity with the parity error substitution character.

Parity Error Substitution character [00-FF]

Type the character in EBCDIC to be inserted into the host data stream in place of a character with bad parity received from the device.

Echoplex [1,0]

1 - The characters received by the 3708 are echoed back to the sending device.

0 - The characters received are not echoed back.

Echoplex provides a visual method of verifying that the 3708 has correctly received data. This option requires full duplex communication facility and permanent RTS.

Attention Key Substitution Character [00-FF]

Type in the hexadecimal value to be transmitted to the host when the 3708 recognizes terminal attention.

Delay After Receipt of CR [1,0]

This option tells the 3708 to delay after a carriage return (CR) is received from a device before initiating a host transmission.

1 - The 3708 uses the value defined in the Delay After Carriage Return field when it receives a carriage return from the device.

0 - The 3708 does not delay before transmitting when it receives a carriage return from the device.

Recognize Terminal Attention [1,0]

1-The attention key substitution character is sent to the host when the break line condition is interpreted as an attention. The 3708 inserts the attention key Substitution Character into the data stream.

0-The 3708 ignores the break line condition when it is interpreted as an attention.

Allow Terminal Break [1,0]

The 3708 sends a break to the terminal after receiving a signal from the SNA host.

1 - Send a break to the terminal.

0 - Do not send a break to the terminal.

Delete Rubout Character [1,0]

1 - Rubout characters (7F) received from the device are deleted.

0 - Rubout characters received from the device are not deleted.

Line Quiet Time [000-255]

When operating in a half duplex capacity (Full Duplex Line set to 0), this field defines the number of character times that the 3708 waits to allow the line to become temporarily inactive after a line turnaround is received. The recommended value for this field is 000.

Recognize System Request Simulation [0-3]

- 0 - This function is disabled.
- 1 - The 3708 recognizes String 1.
- 2 - The 3708 recognizes String 2.
- 3 - The 3708 recognizes the default string (99999).

The system request simulation string (options 1,2, or 3) is recognized only when it occurs at the beginning of a line of data. See 3708 General Definition screen C127.1 for string 1 and 2 definitions.

Text Timeout [000-255]

Type the time, in half seconds, the 3708 should wait before assuming a turnaround character and before sending data to the host. Typing 000 indicates no text timeout. The recommended value for this field is 000.

Permanent Request To Send [1,0]

- 0 - Operating in half duplex capacity
- 1 - Operating in full duplex capacity

Turnaround Characters [01-FF]

Up to five different line turnaround characters can be defined. To define the line turnaround characters, type the hexadecimal representation of each of the EBCDIC characters. A 00 indicates the end of the field. If no translation is defined (TRANSLATE = 0) type the hexadecimal representation of the line turnaround characters.

Send Read Prompt [01-FF]

Type the read prompt you want to appear on the device. If you are using a translation table, code the characters in the hexadecimal representation for EBCDIC. If you are using no translation (TRANSLATE = 0), code the characters in the appropriate character codes for the device. Send Read Prompt is a 25-character field. A 00 indicates the end of a field. Fill this field with zeros to prevent the read prompt from appearing on the screen.

Port Configurations For Specific End User Devices

The 3708 Network Conversion Unit (NCU) can be configured for almost any asynchronous or ASCII end user device. Specific end user devices fall into the following categories:

- leased lines
- switched lines
- other types

The leased lines are direct connections to the 3708 NCU. These ports are always available for communications to the host.

The switched lines are modem connect points. Dial-up service switched lines serve these ports.

Other connections can serve printers, the ASCII host, and switched or leased lines of odd and/or frequently changed configurations.

McIDAS System 3708 Configurations

The following is a list of port configurations which are likely to be found with McIDAS Systems.

- Direct connect asynchronous communications for McIDAS services
- Modem line asynchronous communications for McIDAS services
- Modem dial distribution for McIDAS services
- Modem dial distribution for non-McIDAS quick access services
- Kavouras radar services
- McGill radar services
- FAA conventional meteorology data input
- DDS (Domestic Data Service)
- Carswell (USAF) conventional meteorology data input
- NMC products data input (special synchronous to asynchronous PC/AT conversion)
- LPATS low speed asynchronous data input
- IDS (International Data Service)
- PPS (Public Product Service)
- WSI Radar
- Zephyr's Domestic Plus Service (combined DDS and PPS data input)

Kavouras Radar Services (Asynchronous Data Input)

Port Definition

Line speed	10 (4800 bps)
Device class	1
Line type	L
Disconnect	2
Translate option	111111
Parity	3
Receive queue size	S
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

McGill Radar Services (Asynchronous Data Input)

Port Definition

Line speed	06 (1200 bps)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	2
Receive queue size	S
Bits/character	8
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

NMC Products (Sync to Async Hybrid link through PC/AT)

Port Definition

Receive Xon/Xoff	0
Transmit Xon/Xoff	1
Line speed	12 (9600 bps)
Device class	1
Line type	L
Disconnect	1
Translate option	001111
Parity	2
Receive queue size	S
Bits/character	8
Number of stop bits	1
Maximum platten length	132

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Text timeout	050
Permanent request to send	1
Turnaround character	0000000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

FAA Data Products

Port Definition

Line speed	06 (1200 bps)
Device class	1
Line type	L
Translate option	001111
Parity	3
Receive queue size	S
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Text timeout	010
Permanent request to send	1
Turnaround character	0300000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

DDS Data Products

Port Definition

Line speed	08 (2400 bps)
Device class	1
Line type	L
Translate option	001111
Parity	3
Receive queue size	M
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	00
Attention key substitution character	00
Text timeout	010
Permanent request to send	1
Turnaround character	0300000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

Carswell AFB (USAF) Data Products

Port Definition

Line speed	06 (1200 bps)
Device class	1
Line type	S
Translate option	001111
Parity	2
Receive queue size	S
Bits/character	7
Number of stop bits	1
Auto on hook	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	00
Attention key substitution character	00
Text timeout	010
Permanent request to send	1
Turnaround character	0400000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

DDS Data Products

Port Definition

Line speed	08 (2400 bps)
Device class	1
Line type	L
Translate option	001111
Parity	3
Receive queue size	S
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	00
Attention key substitution character	00
Text timeout	010
Permanent request to send	1
Turnaround character	0300000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

Carswell AFB (USAF) Data Products

Port Definition

Line speed	06 (1200 bps)
Device class	1
Line type	S
Translate option	001111
Parity	2
Receive queue size	S
Bits/character	7
Number of stop bits	1
Auto on hook	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	00
Attention key substitution character	00
Text timeout	010
Permanent request to send	1
Turnaround character	0400000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

LPATS Data Products

Port Definition

Line speed	04 (300 bps)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	3
Receive queue size	S
Bits/character	8
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

McIDAS Direct Dial In (McDial)

Port Definition

Password	
Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	12 (9600 bps) (check modem)
Device class	1
Line type	S
Disconnect	2
Translate option	001111
Parity	2
Receive queue size	M
Bits/character	8
Number of stop bits	1
3270 model emulation	2
Receive queue pacing threshold	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	00
Attention key substitution character	00
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

Port Logon Options

Ports excluded	N
Logon screens excluded	Y
Terminal type ID	01

All other Port Logon Options are not applicable because the logon screens are being excluded.

McIDAS Dial Out (Dialogue)

Port Definition

Line speed	06 (1200 bps) (check modem)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	3 (check modem)
Receive queue size	S
Bits/character	8
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Text timeout	001
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

Non-McIDAS Modem Dial In Distribution

Port Definition

Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	12 (9600 bps) (check modem)
Device class	1
Line type	S
Disconnect	2
Translate option	011111
Parity	1
Receive queue size	S
Bits/character	8
Number of stop bits	1
Inactivity timeout	05000
Auto on hook	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

Direct Connect Line (Single User)**Port Definition**

Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	12 (9600 bps) (check terminal)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	1, 2 or 3 (check terminal)
Receive queue size	S
Bits/character	8
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

IDS Data Products

Port Definition

Receive Xon/Xof	1
Transmit Xon/Xoff	1
Line speed	07 (1800 bps)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	3
Receive queue size	M
Receive queue paging threshold	1
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Text timeout	010
Permanent request to send	1
Turnaround character	0300000000
3270 model emulation	2

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

PPS Data Products

Port Definition

Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	08 (2400 bps)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	3
Receive queue size	M
Receive queue paging threshold	1
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Text timeout	010
Permanent request to send	1
Turnaround character	0300000000
3270 emulation	2

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

McIDAS Broadcast

Port Definition

Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	12 (9600 bps) (check modem)
Device class	1
Line type	L
Translate option	011111
Parity	1
Receive queue size	S
Bits/character	8
Number of stop bits	1
Inactivity timeout	05000
Auto on hook	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Permanent request to send	1
Turnaround character	0D00000000

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

WSI Radar**Port Definition**

Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	08 (2400 bps)
Device class	1
Line type	L
Disconnect	2
Translate option	001111
Parity	3
Receive queue size	S
Receive queue paging threshold	1
Bits/character	8
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	6F
Attention key substitution character	4F
Text timeout	030
Permanent request to send	1
Turnaround character	0000000000
3270 emulation	2

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.

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Zephyr's Domestic Plus Service

Port Definition

Receive Xon/Xoff	1
Transmit Xon/Xoff	1
Line speed	10 (4800 bps)
Device class	1
Line type	L
Disconnect	0
Translate option	001111
Parity	3
Receive queue size	M
Receive queue paging threshold	0
Bits/character	7
Number of stop bits	1

Protocol Enveloping Definition

Full duplex line	1
Full duplex control unit	1
Ignore parity	1
Parity error substitution character	00
Attention key substitution character	00
Text timeout	010
Permanent request to send	1
Turnaround character	0300000000
3270 emulation	2

All other Port Definition and Protocol Enveloping Definition values are set to zero (0) for proper configuration.