

GENICOM

**MODEL 4910/4940
IPDS GUIDE
GEK-89256**

This *Model 4910/4940 IPDS Guide* is intended for use with the emulation controller for the 4910/4940 series impact printers and complements the user's manual which originally came with your printer.

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Chapter 1. Emulation Controller Description

Introduction

This chapter describes the features and compatibility of the emulation controller. Usage of an optional IPDS feature key is also discussed in this chapter.

This chapter will also familiarize you with the interfaces of the emulation controller.

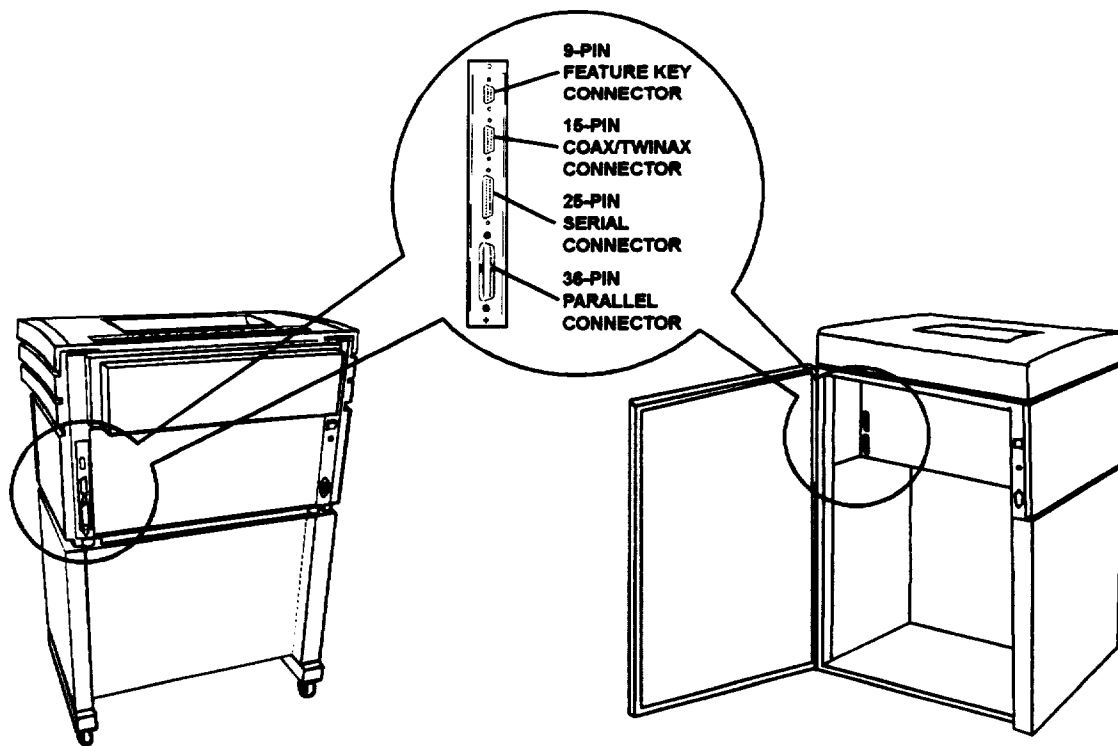
Emulation Controller Base Configuration

When installed and properly configured, the emulation controller is capable of 3270 coax SCS emulations, 5250 twinax emulations and contains ports for serial and parallel inputs.

The emulation controller is also capable of automatically switching between the coax/twinax and serial and parallel ports. See **AUTO SWITCH** in Chapter 3 for a more detailed description of the auto-switching capabilities.

Interface Connectors

The data connector plate on the rear of the printer contains four connectors as shown below:



Coax 3270 SCS Emulations Supported

- IBM 3287 printer, Models 1 and 2
- IBM 4234 Models 1 and 2

NOTE: IBM 3287 Models 1C (color) and 2C are not supported.

Twinax 5250 SCS Emulations Supported

- IBM 4234 Models 2 and 12
- 5225 Models 1, 2, 3, and 4

Optional IPDS Feature Key

An optional feature key is available to enhance the base configuration of the emulation controller. The feature key is installed on the 9-pin feature key connector of the data connector plate as discussed in Chapter 2.

The IPDS feature key enables your printer to emulate IBM 4234/64xx AFP/IPDS (Advanced Function Printing/Intelligent Printer Data Stream) functions in coax 3270/IPDS or twinax 5250/IPDS environments. Refer to the beginning of Chapter 3 for a chart listing all available features in each environment.

Chapter 2. Network Connection and Controller Configuration

Introduction

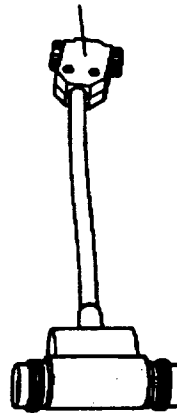
This chapter describes connection of the emulation controller to either a twinax or coax network and the printing of a controller status report.

Connection to the 5250 Twinax Network

To connect to the twinax network:

1. Turn the printer power off. Unplug the power cord from the electrical outlet.
2. Connect the DB-15 pin connector of the twinax T-cable to the twinax port of the data connector plate.

DB-15 pin connector



CAUTION

Attach the T-cable to the printer only at this time. The cable must not be attached to the system communication cable until the printer station address has been set.

3. Plug the printer power cord into an electrical outlet.
4. Turn the printer power on.
5. Ensure that the controller interface (I/F TYPE) is set to **TWINAX**:
 - Following self-testing at power-up, the following screen will appear:

Online

- Press the NEXT OPTION (0) pushbutton. The following screen will appear:

Local

- Press the ENTER (4) pushbutton. The following screen will appear:

PRG: Font

- Press the NEXT OPTION (0) pushbutton repeatedly until the following screen appears:

PRG: Controller

- Press the ENTER (4) pushbutton. The following screen appears:

AUTO SWITCH

- Press the NEXT OPTION (0) pushbutton repeatedly until the following screen appears:

I/F TYPE

- Press the ENTER (4) pushbutton.
 - Ensure that **TWINAX** appears, otherwise press the NEXT OPTION (0) pushbutton until it does.
 - Press the ENTER (4) pushbutton to select **TWINAX**.
 - Press the EXIT (3) pushbutton to return to the **IF/TYPE** menu.
- 6.** Set the twinax station address for the printer:
- From the **IF/TYPE** menu, press NEXT OPTION (0) pushbutton repeatedly until the following screen appears:

STATION ADDR

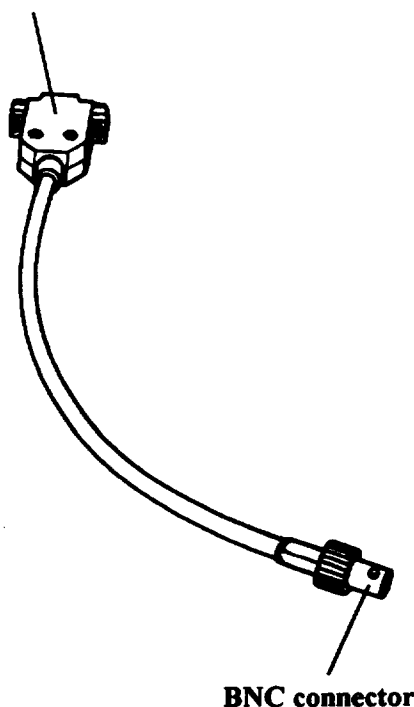
- Press the ENTER (4) pushbutton.
 - Press NEXT OPTION (0) pushbutton repeatedly until the desired station address appears.
 - Press the ENTER (4) pushbutton.
 - Press the QUIT (2) pushbutton to return to the **Local** screen.
- 7.** Turn the printer power off.
- 8.** Attach the T-cable to the system twinax cable.
- 9.** Turn the printer power on.

Connection to the 3270 Coax Network

To connect to the coax network:

1. Turn the printer power off. Unplug the power cord from the electrical outlet.
2. Connect the BNC connector of the coax source cable to the coax BNC connector of the coax adapter cable.

DB-15 connector



Coax adapter with DB-15 and BNC connectors

3. Connect the DB-15 connector of the coax adapter to the data connector plate of the printer.
4. Twist the outer ring of the BNC connector on the coax source cable to ensure that it is firmly connected to the coax adapter.
5. Plug the printer power cord into an electrical outlet.
6. Turn the printer power on.
7. Ensure that the controller interface (IF/TYPE) is set to **COAX**:
 - Following self-testing at power-up, the following screen will appear:

Online

- Press the NEXT OPTION (0) pushbutton. The following screen will appear:

Local

- Press the ENTER (4) pushbutton. The following screen will appear:

PRG: Font

- Press the NEXT OPTION (0) pushbutton repeatedly until the following screen appears:

PRG: Controller

- Press the ENTER (4) pushbutton.
- Press the NEXT OPTION (0) pushbutton repeatedly until the following screen appears:

I/F TYPE

- Press the ENTER (4) pushbutton.
- Ensure that **COAX** appears, otherwise press the NEXT OPTION (0) pushbutton until it does.
- Press the ENTER (4) pushbutton.
- Press the QUIT (2) pushbutton to return to the **Local** screen.

Installing the IPDS Feature Key

To install a feature key for optional IPDS emulations:

- 1.** Ensure that the printer power is off.
- 2.** Line up the 9 pins of the feature key with the 9-pin feature key connector on the rear of the printer as described in Chapter 1.
- 3.** Tighten the screws of the feature key with an appropriate screwdriver.
- 4.** Turn the printer power on.

Printing a Controller Status Report

To print a controller status report from a power off condition:

1. Turn the power switch to the on position.
2. Following self-testing the following screen will appear:

Online

3. Press the ONLINE (0) pushbutton. The following screen will appear:

Local

4. Press the FUNCTION (3) pushbutton. The following screen will appear:

FCT: Reverse FF

5. Press the PREVIOUS OPTION (1) pushbutton. The following screen will appear:

FCT: Status

6. Press the ENTER (4) pushbutton. A two page report will print. The second page is the controller status report. An example appears on the following page.

Example of a Controller Status Report

The following is an example of a controller status report for a printer configured for coax with the IPDS feature key installed.

```

                                CONTROLLER STATUS REPORT
AUTO SWITCH                     ON
END JOB TO                       20
DEFAULTS                         YES
BAUD                             9600
DATA BITS                        8
STOP BITS                        1
PARITY                           NONE
DTR                              HIGH
RTS                              HIGH
XON/XOFF                         OFF
ROBUST XON                       OFF
I/F TYPE                         COAX
CX SCS EMU                       3287
IPDS BC DEN                      MED
IPDS STAGGER                     OFF
IPDS GR DEN                      HIGH
IPDS IM DEN                      HIGH
IPDS TEXT                       DP
IPDS FDRAFT                      OFF
DEN OVERRIDE                    OFF
CODE PAGE                       037
OVERRIDE CP                      OFF
LPI                              6
OVERRIDE LPI                    OFF
CPI                              10
OVERRIDE CPI                    OFF
MPP                              132
OVERRIDE MPP                    OFF
MPL                              66
OVERRIDE MPL                    OFF
SCS TEXT                         DP
OVERRIDE TXT                    OFF
SCS FDRAFT                      OFF
OVERRIDE ALL                    OFF
CASE                             DUAL
BUFF SIZE                       1920
LOC COPY FF                     OFF
FF BEFORE LC                   OFF
INTERV REQ                      ON
IRQ ERR TO                      12
IRQ BSY TO                      240
CR AT MPP+1                    NL
NL AT MPP+1                    LN+2
FF DATA                        COL 1
FF END BUFF                    LN 1
NULL SUP                       LC/NSCS
FF POS                          CPP=1
AUTO FUNCT                      NL
HEX PRINT                      OFF
LAST LF/FF                     ON
SUPP CCODE                     OFF
VCS                             3268/4214
COMM                            QUERY/EAB
HEX 1                           0
HEX 2                           0
HEX TERM                       0
UPGRADE                        OFF

```

Key definitions for program mode are:

```

Program - printer setup menu.
Function - control, status, stored form setup menu.
Quit - exit completely from program or function mode.
Exit - exit to previous menu or function level.
Next Option - advance to next menu or function item.
Previous Option - back up to previous menu or function item.
Enter - select new menu or displayed value.

```

Conclusion

You are now familiar with the physical characteristics of the emulation controller, have connected to the twinax or coax network and successfully printed a controller status report. Proceed to Chapter 3 to learn about the available options within the LCD menus of the emulation controller.

Chapter 3. Using the LCD Menu Selections

This chapter defines the LCD menu selections available when the emulation controller and optional feature keys are installed in the printer.

This chapter also defines LCD error messages.

LCD Menu Selections

The chart appearing on the following two pages lists the menu selections in the order that they appear. Depending on the configuration of your printer and feature key option installed, menu selection availability will vary.

In the following chart, headings are defined as follows:

COAX	Menu selection appears in coax (non-IPDS) environments.
TWINAX	Menu selection appears in twinax (non-IPDS) environments.
IPDS	Menu selection appears in coax and/or twinax IPDS environments (as indicated).
COMM	Menu selections used to define serial port communications parameters

	COAX	TWINAX	IPDS	COMM
AUTO SWITCH	✓	✓	✓	
END JOB TO	✓	✓	✓	
DEFAULTS	✓	✓	✓	
PAR FILTER				
SER FILTER				
CX/TX FILTER				
BAUD				✓
DATA BITS				✓
STOP BITS				✓
PARITY				✓
DTR				✓
RTS				✓
XON/XOFF				✓
ROBUST XON				✓
I/F TYPE	✓	✓	✓	
TX SCS EMU		✓		
CX SCS EMU	✓			
STATION ADDR		✓	✓ (twinax)	
BUFF SIZE			✓ (twinax)	
IPDS BC DEN			✓	
IPDS STAGGER			✓	
IPDS GR DEN			✓	
IPDS IM DEN			✓	
IPDS TEXT			✓	
IPDS FDRAFT			✓	
DEN OVERRIDE			✓	
CODE PAGE	✓	✓	✓	
OVERRIDE CP	✓	✓		
LPI	✓	✓		
OVERRIDE LPI	✓	✓		
CPI	✓	✓		

(Continues on following page)

	COAX	TWINAX	IPDS	COMM
OVERRIDE CPI	✓	✓		
MPP	✓	✓		
OVERRIDE MPP	✓	✓		
MPL	✓	✓		
OVERRIDE MPL	✓	✓		
SCS TEXT	✓	✓		
OVERRIDE TEXT	✓	✓		
SCS FDRAFT	✓	✓		
OVERRIDE ALL	✓	✓		
CASE	✓			
BUFF SIZE	✓			
LOC COPY FF	✓			
FF BEFORE LC	✓			
INTERV REQ	✓			
IRQ ERR TO	✓			
IRQ BSY TO	✓			
CR AT MPP+1	✓			
NL AT MPP+1	✓			
FF DATA	✓			
FF END BUFF	✓			
NULL SUP	✓			
FF POS	✓			
AUTO FUNCT	✓			
HEX PRINT	✓	✓		
LAST LF/FF	✓			
SUPP CCODE	✓			
VCS	✓			
COMM	✓			
HEX 1	✓	✓		
HEX 2	✓	✓		
HEX TERM	✓	✓		
UPGRADE	✓	✓	✓	

LCD Menu Selections Defined

To the left of each definition are the environments in which the respective menu selections are available.

ALL

AUTO SWITCH

Auto Switching

When **AUTO SWITCH** is set to **ON**, the printer is able to switch automatically between the coax/twinax, serial and parallel ports. The printer monitors the data ports. If data is received from a non-active port and the active port has been idle for a time period greater than the current **End of Job Timeout** setting (see **END JOB TO** below), the printer changes ports. If the printer receives data for the active port before the timeout has expired, the printer prints the job and resets the **End of Job Timeout**. When **AUTO SWITCH** is set to **OFF**, the serial and parallel ports are not available.

Available selections: **OFF**
 ON

Factory default: **OFF**

ALL

END JOB TO

End of Job Timeout

END JOB TO sets the number of seconds the active port will wait while not receiving data before it switches ports.

Available selections: **5 to 99 seconds**

Factory default: **20**

ALL

DEFAULTS

Factory Defaults

DEFAULTS is used to reset the controller to factory defaults. When **YES** is selected, all options will be set to factory default values.

Available selections: **YES**
 NO

Factory default: **YES**

ALL

BAUD

Baud Rate

BAUD is a serial port communication parameter. The baud rate is calculated in bits-per-second. You must set the baud rate to be equal to the host machine's baud rate.

Available selections: **1200**
 2400
 4800
 9600
 19200
 38400
 57600
 115200

Factory default: **9600**

ALL

DATABITS

Number of Data Bits in Serial Transmission

DATABITS is a serial port communication parameter. Selection of data bits sets the number of bits in the transmission. Be sure to set the data bits equal to that of the host computer.

Available selections: **7**
 8

Factory default: **8**

ALL

STOP BITS

Number of Stop Bits in Serial Transmission

STOP BITS is a serial port communication parameter to select the number of stop bits in the data transmission. Be sure to set the stop bits equal to that of the host computer.

Available selections: **1 to 2**

Factory default: **1**

ALL

PARITY

Parity of Serial Transmission

PARITY is a serial port communication parameter. This option sets the state of the binary digits to odd, even, or to no parity. Be sure to set the parity equal to the parity setting of the host computer.

Available selections: **EVEN**
 ODD
 NONE

Factory default: **NONE**

ALL

DTR

Data Terminal Ready

DTR is a parameter of the communication handshake for the serial port and is used to determine when the Data Terminal Ready signal is generated. This signal indicates whether or not the printer is ready to receive data. When set to **HIGH**, the DTR signal will be generated when the printer is **READY** and the internal serial buffer is not full. When set to **LOW**, the DTR signal will be generated when the printer is not ready or the internal serial buffer is full. When set to **OFF**, the DTR signal is never generated.

Available selections: **HIGH**
 LOW
 OFF

Factory default: **OFF**

ALL

RTS

Request to Send

RTS is a parameter of the communication handshake for the serial port and is used to determine when the request to send signal is generated. This signal indicates whether or not the printer is ready to receive data. When set to **HIGH**, the RTS signal will be generated when the printer is ready and the internal serial buffer is not full. When set to **LOW**, the RTS signal will be generated when the printer is not ready or the internal serial buffer is full. When set to **OFF**, the RTS signal is never generated.

Available selections: **HIGH**
 LOW
 OFF

Factory default: **OFF**

ALL

XON/XOFF

XON/XOFF Protocol Flow Control

When the serial port is active, XON/XOFF protocol is used as a method of flow control. The printer transmits an XON character (hex 11) when entering ready mode or when the print buffer is almost empty. When entering the not ready mode, or when the print buffer is almost full, the printer transmits an XOFF character (hex 13).

Available selections: **OFF**
 ON

Factory default: **OFF**

ALL

ROBUST XON

Serial Transmission Robust XON

With **ROBUST XON** set to **ON**, extra XON codes are sent over the RS-232 interface as the printer is idling. When set to **OFF**, no extra XON codes are sent.

NOTE: **XON/OFF** (above) must be set to **ON** in order to access the **ROBUST XON** option.

Available selections: **OFF**
 ON

Factory default: **OFF**

ALL

I/F TYPE

Interface Type

I/F TYPE is used to match that of the host interface used.

Available selections: **TWINAX**
 COAX

Factory default: **TWINAX**

TWINAX**TX SCS EMUL**
Twinax SCS Emulation

TX SCS EMUL is used to select specific printer model emulation while in twinax SCS mode.

NOTE: I/F TYPE (above) must be set to **TWINAX** in order to access this option.

Available selections: **5225**
 4234

Factory default: **4234**

COAX**CX SCS EMU**
Coax SCS Emulation

CX SCS EMUL is used to select specific printer model emulation while in coax SCS mode.

NOTE: I/F TYPE (above) must be set to **COAX** in order to access this option.

Available selections: **3287**
 4234

Factory default: **4234**

TWINAX**STATION ADDR**
Station Address

The **STATION ADDR** option sets the active printer address in twinax environments.

Available selections: **0 to 6**

Factory default: **0**

IPDS**IPDS GR DEN**

IPDS Graphics Density/Quality

IPDS GR DEN is used to select graphics density/quality in IPDS emulations. **LOW** represents low density. **MED** represents medium density and **HIGH** represents high density.

NOTE: See **DEN OVERRIDE** defined below.

Available selections: **LOW** (60H x 72V)
 MED (120H x 72V)
 HIGH (120H x 144V)

Factory default: **HIGH**

IPDS**IPDS IM DEN**

IPDS Image Density/Quality

IPDS IM DEN is used to select image density/quality in IPDS emulations. **LOW** represents low density. **MED** represents medium density and **HIGH** represents high density.

NOTE: See **DEN OVERRIDE** defined below.

Available selections: **LOW** (60H x 72V)
 MED (120H x 72V)
 HIGH (120H x 144V)

Factory default: **MED**

IPDS**IPDS TEXT**

IPDS Text Quality

IPDS TEXT is used to select text quality in IPDS emulations. **DRAFT** represents draft quality. **DP** represents data processing and **NLQ** represents near letter quality.

NOTE: See **DEN OVERRIDE** and **IPDS FDRAFT** defined below.

Available selections: **DRAFT**
 DP
 NLQ

Factory default: **DP**

IPDS

IPDS FDRAFT

IPDS Fast Draft Text Quality

If **IPDS TEXT** is set to **DRAFT**, and **IPDS FDRAFT** is set to **ON**, the resulting text quality will be fast draft.

Available selections: **OFF**
 ON

Factory default: **OFF**

IPDS

DEN OVERRIDE

Override Host IPDS Density/Quality Commands

When **DEN OVERRIDE** is set to **ON**, the printer will override any command by the host computer attempting to change the **IPDS BC DEN**, **IPDS GR DEN**, **IPDS IM DEN**, or **IPDS TEXT** to other than the respective current menu values. When this option is set to **OFF**, the **IPDS BC DEN**, **IPDS GR DEN**, **IPDS IM DEN**, or **IPDS TEXT** allow the user to individually set the default density/qualities.

Available selections: **OFF**
 ON

Factory default: **OFF**

ALL**CODE PAGE****Code Page (default)**

This option is used to select the default code page (CPGID) used by the printer when the host requests the default.

Available selections:	500	(International)
	037	(US/Canada)
	037B	(Canada Bilingual)
	038	(U.S. ASCII)
	256	(International)
	260	(Canada)
	273	(Austria/Germany)
	274	(Belgium)
	275	(Brazil)
	277	(Denmark/Norway)
	278	(Finland/Sweden)
	280	(Italy)
	281	(Japan English)
	282	(Portugal)
	284	(Spain)
	285	(United Kingdom)
	286	(Austria/Germany Alt.)
	287	(Denmark/Norway Alt.)
	288	(Finland/Sweden Alt.)
	289	(Spain Alt.)
	297	(France 105)
	871	(Iceland)
	420	(Arabic)
	423	(Greek)
	424	(Hebrew)
	803	(Hebrew)
	870	(Latin)
	875	(Greek)
	880	(Cyrillic)
	890	(Yugoslav)
	905	(Turkey)
	1002	(DCF compatible)
	1025	(Cyrillic)
	1026	(Turkish)
	892	(OCR A)
	893	(OCR B)
Factory default:	037	(U.S./Canada)

TWINAX COAX OVERRIDE CP
Override (Default) Code Page

When this option is set to **ON**, the printer will override any command from the host computer attempting to change the Code Page value to one other than the current menu value. This option has no effect if **OVERRIDE ALL** is set to **ON** (see **OVERRIDE ALL** below).

Available selections: **OFF**
 ON

Factory default: **OFF**

TWINAX COAX LPI
Lines Per Inch

This selection is used to change the default LPI (lines per inch) setting. In LU-1 mode the LPI option sets the default lines per inch setting but may be overridden by the data stream. In DSC/DSE modes this option sets the absolute LPI setting and cannot be overridden by the data stream.

Available selections: **3**
 4
 6
 8

Factory default: **6**

TWINAX COAX OVERRIDE LPI
Override Lines Per Inch

When this option is set to **ON**, the printer will override any command from the host computer attempting to change the lines per inch value to one other than the current menu value. This option has no effect if **OVERRIDE ALL** is set to **ON** (see **OVERRIDE ALL** below).

Available selections: **OFF**
 ON

Factory default: **OFF**

TWINAX COAX CPI
Characters Per Inch

This selection is used to change the default **CPI** (characters per inch) setting. In LU-1 mode, the **CPI** option sets the default value for characters per inch but may be overridden by the data stream. In DSC/DSE mode, this option sets the absolute **CPI** setting and cannot be overridden by the data stream.

Available selections: **5**
 10
 12
 13.3
 15
 16.7
 17.1
 18
 20

Factory default: **10**

TWINAX COAX OVERRIDE CPI
Override Characters Per Inch

When this option is set to **ON**, the printer will override any command from the host computer attempting to change the characters per inch value to one other than the current menu value. This option has no effect if **OVERVERRIDE ALL** is set to **ON** (see **OVERVERRIDE ALL** below).

Available selections: **OFF**
 ON

Factory default: **OFF**

TWINAX COAX MPP

Maximum Print Position

The **MPP** option sets the value for the default maximum print position. In LU-1 (SCS) mode it may be overridden by the data stream. When powered on, the printer computes available MPP. If this option is set to zero or a value greater than the computed maximum, the printer will use the computed maximum as the default. In DSC/DSE mode this value cannot be overridden.

Available selections: **0 to 999**

Factory default: **132**

TWINAX COAX OVERRIDE MPP

Override Maximum Print Position

When **OVERRIDE MPP** is set to **ON**, the printer will override any command from the host computer attempting to change the **MPP** value to one other than the current menu value. This option has no effect if **OVERRIDE ALL** is set to **ON** (see **OVERRIDE ALL** below).

Available selections: **OFF**
ON

Factory default: **OFF**

TWINAX COAX MPL

Maximum Page Length

The **MPL** option sets the value for the default maximum page length. In LU-1 (SCS) mode the maximum page length option sets the value for the default maximum page length, but may be overridden by the data stream. When powered on, the printer computes available page length. If the **MPL** is set to zero or a value greater than the computed maximum, the printer will use the computed maximum as the default. In DSC/DSE mode, this option sets the absolute **MPL** and cannot be overridden by the data stream.

Available selections: **0 to 999**

Factory default: **132**

TWINAX COAX OVERRIDE MPL
Override Maximum Page Length

When **OVERRIDE MPL** is set to **ON**, the printer will override any command from the host computer attempting to change the **MPL** (maximum page length) value to one other than the current menu value. This option has no effect if **OVERRIDE ALL** is set to **ON** (see **OVERRIDE ALL** below).

Available selections: **OFF**
 ON

Factory default: **OFF**

TWINAX COAX SCS TEXT
SCS Text Quality

SCS TEXT is used to select text quality in SCS emulations. **DRAFT** represents draft quality. **DP** represents data processing and **NLQ** represents near letter quality.

Available selections: **DRAFT**
 DP
 NLQ

Factory default: **DP**

TWINAX COAX OVERRIDE TXT
Override Text

When **OVERRIDE TEXT** is set to **ON**, the printer will override any command from the host computer attempting to change the text quality value to one other than the current menu value. This option has no effect if **OVERRIDE ALL** is set to **ON** (see **OVERRIDE ALL** below).

Available selections: **OFF**
 ON

Factory default: **OFF**

TWINAX COAX SCS FDRAFT
SCS Fast Draft Text Quality

If **SCS TEXT** is set to **DRAFT**, and **SCS FDRAFT** is set to **ON**, the resulting text quality will be fast draft.

Available selections: **OFF**
ON

Factory default: **OFF**

TWINAX COAX OVERRIDE ALL
Override Multiple Host Commands

When **OVERRIDE ALL** is set to **ON**, the printer will override any command by the host computer attempting to change the **CODE PAGE**, **LPI**, **CPI**, **MPP**, or **MPL** to other than the respective current menu values. When this option is set to **OFF**, the **CODE PAGE**, **LPI**, **CPI**, **MPP** or **MPL OVERRIDES** give the user individual control of each override function.

Available selections: **OFF**
ON

Factory default: **OFF**

COAX CASE
Monocase or Dualcase

The **CASE** menu option is valid for **DSC/DSE** modes only. **LU-1** is always dual case. It causes the printer to print in upper and lower case when set to **DUAL**, or in just upper case when set to **MONO**.

Available selections: **DUAL**
MONO

Factory default: **DUAL**

COAX**BUFF SIZE**

Buffer Size

The **BUFF SIZE** option allows you to select the screen size for local copy.

Available selections: **960**
 1920
 2560
 3440
 3564

Factory default: **1920**

COAX**LOC COPY FF**

Local Copy Form Feed

The **LOC COPY FF** option causes the printer to execute a form feed after the print buffer is completed in an operator initiated local copy print job. The printer ejects the page and is set to print at column 1, line 1 of the next page. This option overrides **FF END BUFF** (see below) to allow the printer to maintain compatibility with application programs designed for earlier printers.

Available selections: **OFF**
 ON

Factory default: **OFF**

COAX**FF BEFORE LC**

Form Feed Before Local Copy

The **FF BEFORE LC** option causes the printer to execute a form feed before the print buffer is completed in an operator initiated local copy print job.

Available selections: **OFF**
 ON

Factory default: **OFF**

COAX**INTERV REQ**

Intervention Required

Under certain error conditions such as paper out and cover open, the printer will start a one-minute timeout. If the printer is put into hold mode during this timeout, a 10-minute timeout will be started. If the condition is not removed within the timeout period, the printer sends an intervention required message to the host computer. If set to **OFF**, this option will suppress the sending of an intervention required message.

Available selections: **OFF**
 ON

Factory default: **ON**

COAX**IRQ ERR TO**

Intervention Required Error Timeout

If the **INTERV REQ** option above is set to **ON**, the **IRQ ERR TO** value represents the amount of time available to clear an error (such as a paper jam or paper out, etc.) before the printer notifies the host. Each value increment represents 5 seconds.

NOTE: The factory default represents a 1 minute timeout:
 $12 \times 5 \text{ seconds} = 1 \text{ minute.}$

Available selections: **0 to 255**

Factory default: **12**

COAX**IRQ BSY TO**

Intervention Required Busy Timeout

If the **INTERV REQ** option above is set to **ON**, and the printer is offline for a period of time exceeding the **IRQ BSY TO** value selected, an LCD error message will appear.

Available selections: **0 to 255**

Factory default: **240**

COAX

CR AT MPP+1

Carriage Return at Maximum Print Position + 1 Line

If **CR at MPP+1** is set to **NL** and a carriage return is executed at **MPP+1**, a new line will also be executed. The next print position will be on the next line, column 1. If set to **CR**, and a carriage return is executed at **MPP+1**, no additional new line will be executed, and the next print position will be on the current line, column 1.

Available selections: **NL**
 CR

Factory default: **NL**

COAX

NL AT MPP+1

New Line at Maximum Print Position + 1

If **NR at MPP+1** is set to **LN+2** and a new line is executed at **MPP+1**, an additional new line is executed automatically. The next print position will be in column 1 and down 2 lines. If set to **NL**, no additional new line is executed at **MPP+1** and the next print position will be on column 1 of the next line.

Available selections: **LN+2**
 NL

Factory default: **LN+2**

COAX

FF DATA

Form Feed Followed by Data

When printing in **LU-3** mode, the **FF DATA** option is used to select the action taken if a form feed is received by the printer and it is not the last character in the **IBM** print buffer. When set to **COL 2**, the current print position after the form feed will be the second position on line one of the next form. If set to **COL 1**, the current print position will be the first print position on line one of the next form.

Available selections: **COL 2**
 COL 1

Factory default: **COL 1**

COAX**AUTO FUNCT**

Auto Function

When printing in LU-3 mode, the **AUTO FUNCT** option is used to specify what action will be taken when the printing of an IBM print buffer is completed. If set to **FF** (form feed), the printer will automatically execute a form feed at the end of the print buffer or a local copy unless the last character received was already a form feed. If set to **NL** (new line), and the last character is not a form feed, new line, or carriage return, a new line will automatically be executed.

Available selections: **NL**
 FF

Factory default: **NL**

ALL**HEX PRINT**

Hex Print Mode

HEX PRINT is used to troubleshoot communications or applications program problems. The raw data and commands that are sent to the printer from the host computer or controller are passed directly through without any interpretation. The printout can aid in determining what the printer is being instructed to do by the controller and applications program.

Available selections: **OFF**
 ON

Factory default: **OFF**

COAX**LAST LF/FF**

Last Line Feed Sent as Form Feed

When set to on, **LAST LF/FF** will eject a page by sending a form feed when the last character in the IBM print buffer is a line feed.

Available selections: **OFF**
 ON

Factory default: **OFF**

COAX**SUPP CCODE**

Suppress Host Control Codes

When set to **ON**, **SUPP CCODE** will suppress control codes generated by the IBM host.

Available selections: **OFF**
 ON

Factory default: **OFF**

COAX**VCS**

Vertical Channel Select Emulation

VCS is used to select the VCS emulation.

Available selections: **3287**
 3268/4214
 NON SCS 3268
 NON SCS 3287

Factory default: **3268/4214**

COAX**COMM**

IBM Communication Feature

The **COMM** option enables or disables the Extended Attribute Buffer (**EAB**) and enables or disables the Query Reply. When set to **EAB**, **EAB** is enabled but *not* Query Reply. When set to **QUERY/EAB**, **EAB** and Query Reply are both enabled. In the **DISABLED** state, neither **EAB** nor Query Reply is enabled.

Available selections: **EAB**
 QUERY/EAB
 DISABLED

Factory default: **QUERY/EAB**

TWINAX COAX

HEX 1

Define First Character in Hex String

HEX1 is used to define the first character (in EBCDIC) of the lead-in sequence for hex passthru. Hex passthru enables sending commands in the datastream to access features that are not available in standard IBM emulations. Hex passthru requires a identification of two lead-in characters (**HEX 1** and **HEX 2**) and a terminating character (**HEX TERM**) indicating the beginning and ending of the command stream. Upon receipt of the two lead-in characters, the emulation controller begins translating the EBCDIC characters 0 to 9 and A to F into hexadecimal data. Two EBCDIC characters are combined into one hexadecimal byte and sent to the printer. Data translation continues until the emulation controller receives the terminating character.

Available selections: 0 to 255

Factory default: 0

TWINAX COAX

HEX 2

Define Second Character in Hex String

HEX2 is used to define the second character (in EBCDIC) of the lead-in sequence for hex passthru. See **HEX 1** above for more information.

Available selections: 0 to 255

Factory default: 0

TWINAX COAX

HEX TERM

Define Terminating Character in Hex String

HEX TERM is used to define the last character (in EBCDIC) of a hex pass thru sequence. See **HEX 1** above for more information.

Available selections: 0 to 255

Factory default: 0

ALL

UPGRADE
Firmware Upgrade

UPGRADE is used as part of the firmware upgrade procedure. This option must be set to **ON** to perform the upgrade. Refer to the upgrade procedures that ship with firmware upgrades.

Available selections: **OFF**
 ON

Factory default: **OFF**

Emulation-Related LCD Messages

06 ATTENTION

This coax emulation message will be displayed whenever the printer receives an SCS BEL "bell code" from the host computer. To remove the message and continue, place the printer offline and then online.

07 EQUIPMENT CHECK

This coax emulation message means that an invalid Printer Control Information Area (PCIA) was received from the host computer. To clear the error, place the printer offline and then online.

27 NOT ENABLED

This message means the control unit is not ready, a cable problem exists between the printer and the control unit, or the cable has been disconnected and then reconnected. To clear this error, place the printer offline and then online. If the message is displayed again, turn the printer off and then on.

28 NO CU SIGNAL

This message means that the printer is not receiving polls from the control unit. Check to see if the cable is connected, if the control unit is online, or if the printer hardware has a problem.

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