IBM InfoWindow II 3153
Marketing Reference Guide

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IBM InfoWindow II 3153
Marketing Reference Guide

Third Edition (United States Version), July 1998

Purpose:

This guide provides:

- 3153 Features/Functions Information
- 3153 Ordering Information
- 3153 Limited Warranty/Service Information
- 3153 Technical Specifications Information
- RS/6000, AS/400, and 4690 Point-Of-Sale System Attachment Information

This guide is intended for IBM Representatives, IBM Business Partners, and IBM customers located in the United States as a reference document.

This guide references the 3153 models announced in the United States. As additional reference all 3153 models (Worldwide) are listed on "3153 Model, Part Number Information (Worldwide)" on page 9.

For a complete description of the 3153, refer to:

- IBM InfoWindow II 3153 User's Guide, GA27-4083-01
- IBM InfoWindow II 3153 Programmers Reference Manual, GC30-3707-01

IBM Personal Systems Group Fax Service/IBM Fax Service/Electronic Copies:

To obtain a copy of this document, refer to "3153 Marketing Resources, Manuals, Information via WWW" on page 13.

Trademark Information

Contents

3153 Functions

ASCII/ANSI/PCTerm Emulations

- The 3153 supports the following ASCII/ANSI/PCTerm emulations: IBM 3151; Wyse 60, 50/50+; DEC VT320, VT220, VT100; ADDS ViewPoint; PC Term; SCO Console; TeleVideo TVI925; AT386 Unix Console

- The supported emulations allow attachment to: RS/6000* with AIX*, PC Server with multiuser software (SCO Xenix**, SCO Unix**, multiuser DOS or others), AS/400* with OS/400* , or S/390* via IBM 3174 Establishment Controller

Communication/Parallel Ports

- The 3153 has two serial (main/auxiliary) communications ports and one parallel port. This allows the 3153 to be used in a variety of mixed host and printer environments.

- **Two Serial Communication Ports:** Can be used for host system attachment (direct or via modem) or for serial printer attachment.

  - **Main (SES1-EIA):** RS232 (3153 Model BG3,BA3) or RS422 (3153 Model CG3,CA3) supporting bidirectional communication up to 134.4 kbps. For RS232, the EIA serial port is configured as a Data Terminal Equipment (DTE). The serial port connector is a female 25 pin D-shell (DB25).
  - **Auxiliary (SES2-AUX):** RS232 supporting bidirectional communication up to 38.4 kbps. The AUX serial port is configured as a (DCE) Data Communications Equipment. The serial port connector is a female 25 pin D-shell (DB25).

- **Parallel Port (PAR):** Can be used for parallel printer attachment or other devices that support a Centronics* parallel interface. The parallel is unidirectional (output only). The parallel port connector is a female 25 pin D-shell (DB25).

Dual Session

- The 3153 can simultaneously receive data using the 3153's main and auxiliary serial communication ports that is when attached to the same or two different host systems.

- Each session can be configured with its own unique emulation and communication setup values.

- The user can select between, dual session:

  - **Full screen display viewing:** Allows the user to view one session at a time in a full screen format.
  - **Split screen display viewing:** Allows the user to view two sessions in a top-bottom format. The top and bottom sessions are separated by a horizontal line.

- The user can switch, 'Hot key', between sessions, either configured for full screen or split screen, by using the Ctrl-Enter(Numeric Keypad) key sequence.

- Dual session can be combined with the 3153's Copy-Paste capability, which allows the user to copy a line or block of data from one session and paste into the other session.

Split screen

- The 3153 supports horizontal split screen for use with the 3153's dual session capability.

- This allows users to view two full or partial host applications screens in a top-bottom format, based on 3153's setup parameters.

- Split Screen is available when configured for most ASCII/ANSI/PC emulations.

Pages of Memory

- The 3153 supports up to ten pages of memory. Pages of memory, dependent on operating system and/or application support, allow the user:

  - To view a page of memory while the application is creating the next/previous page. When the user presses a key to view the next/previous page, the next/previous page is displayed immediately since it is already loaded in the 3153's memory. This increases user productivity as a result of less waiting for the application to display the next/previous page.
  - To have multiple 'virtual' sessions using a single communication line. The user jumps between sessions, by a pressing a 3153 key. The operating system/application controls the multiple 'virtual' sessions. Each 'virtual' session is displayed immediately since the it is already loaded in the 3153's memory. This allows user to have multiple sessions without the need to have a communications line for each session. The maximum number of 'virtual' sessions is limited to the maximum number of pages.

- The number of available pages, listed in the following table, is based on the following 3153 setup parameters:

  - Page Length: The number of lines/rows per page
  - Sessions: One (single), Two (Dual)
  - Columns: 80, 132 or 80-only
  - Emulation: IBM 3151 or non-IBM

Page Length	Single Session 80 or 132 IBM 3151	Single Session 80-only IBM 3151	Dual Session IBM 3151	Single Session 80 or 132 Non-IBM	Single Session 80-only Non-IBM	Dual Session 80 or 132 Non-IBM	Dual Session 80-only Non-IBM
24	1 to 8	1 to 10	1 to 4	8	10	4	4
25	1 to 8	1 to 9	1 to 4	8	9	4	4
28	1 to 8	1 to 9	1 to 4	8	8	4	4
29	---	---	---	7	8	3	4
42	1 to 5	1 to 5	1 to 2	5	5	2	2
43	1 to 5	1 to 5	1 to 2	5	5	2	2
48	1 to 4	1 to 5	1 to 2	4	5	2	2
50	1 to 4	1 to 4	1 to 2	4	4	2	2
56	---	---	---	4	4	2	2
58	---	---	---	3	4	1	2
84	---	---	---	2	2	1	1
86	---	---	---	2	2	1	1
96	---	---	---	2	2	1	1
100	---	---	---	2	2	1	1
112	---	---	---	2	2	1	1
116	---	---	---	1	2	---	---
168	---	---	---	1	1	---	---
172	---	---	---	1	1	---	---
192	---	---	---	1	1	---	---
200	---	---	---	1	1	---	---
*24[1]	---	---	---	2(176)	2(216)	2(76)	2(96)
*25[1]	---	---	---	2(175)	2(215)	2(75)	2(95)
*28[1]	---	---	---	2(172)	2(212)	2(72)	2(92)
*29[1]	---	---	---	2(171)	2(211)	2(71)	2(91)
*42[1]	---	---	---	2(158)	2(198)	2(58)	2(78)
*43[1]	---	---	---	2(157)	2(197)	2(57)	2(77)

Notes:

1 The number in parenthesis lists the remaining allowable lines in memory.

Programmable Keys

- The user or host application can redefine the contents of the following 3153 keys on the PC-style or ASCII-style keyboards:

PC-style	ASCII-style	PC-style	ASCII-style
Esc	Esc	Insert	Insert
F1-F12	F1-F12	Delete	Delete
Tab ®	Tab ®	Home	Home
Backspace	Backspace	End	¬ Tab
Cursor -, ¯, ¬, ®	Cursor -, ¯, ¬, ®	Page Up	Clear
Enter (Num Keypad)	Enter (Num Keypad)	Page Down	Erase EOF
Print Screen	Print	Enter	Return

- F1-F12 keys are programmable to four levels (unshifted, shift, ctrl, ctrl-shift) and all other keys are programmable to two levels (unshifted, shift).

- Redefinition of these keys increases user productivity and reduces keyboard typing errors by allowing the user to store commonly used key sequences thus allowing quick movement within their application or operating system.

- When configured for dual sessions, each session can have its own unique redefinition of keys.

- A total of 542 bytes is available for each session.

- The contents of each key can be sent to the host, screen, printer, host and screen, host and printer, or the host and screen and printer.

Copy-Paste

- The user can copy a line or block of characters and paste within the same session, or between sessions.

- Increases user productivity and reduces typing errors when users require duplication of similar information or text.

Desk Accessories (Clock,Calendar,Calculator,ASCII Chart,Diagnostic Menu)

- 3153 features five desktop accessories which can be accessed one at a time through pop-up windows. The 3153 supports the following Desk Accessories:

  - **Clock:** Displays the local 12/24 hour clock on the status line together with the date. An alarm can also be set.
  - **Calendar:** Displays the calendar for any month from the years 1900 to 2099 with the current date at the bottom.
  - **Calculator:** Displays a calculator. Functions include: +, -, /, * and memory. After a calculation is performed, the final result can be exported to an application by pressing the Shift-X key. Note: The 3153 does not support calculation import capability.
  - **ASCII Chart:** Displays the 7-bit ASCII chart in column format. Columns include: Decimal, Octal, Hexadecimal and Binary values. This provides a quick reference aid to application developers and programmers when a decimal, octal, hexadecimal or binary conversion is needed, thus alleviating the need to look-up a manual.
  - **Diagnostic Menu:** Displays the 3153 diagnostic menu, which includes, the serial communication port (RS-232 or RS-422), information. It also assists service personal in problem determination.

WordPerfect Graphic Print Preview

- The user can view a single page of a single/multipage document prior to printing it when using 3153 with WordPerfect for UNIX.

- Requires:

  - 3153: WYSE 60 emulation and 8-bit mode
  - Terminal Environment for WordPerfect: WPTERM51=wyse160epc8.trs
  - Display Setup within WordPerfect: Graphic Screen Type=wy160_8_herc

Programmable Banner

- The user can create a 30-character banner message that appears in a large font, in the center of the 3153 screen, at power-on.

Setup Menu

- The setup menu is the control panel for the 3153. It allows the user to configure the 3153's communications, display, printer, and keyboard operations.

- Quick movement within the setup menu is aided by single keystroke function keys: F1-F12 and Print.

- A 'Quick' setup menu, F1 in setup, is available which lists the following critical setup parameters:

  - Emulation
  - Main and Auxiliary Serial Communication and Parallel Port Definition
  - Main and Auxiliary Serial Communication Port protocols
  - Keyboard Language
  - Single/Dual Session

- The setup menus can be displayed in the following six different languages: English, French, Spanish, German, Italian and Portuguese.

- Based on the ASCII/ANSI/PCTerm emulation, the setup menu can be entered by pressing:

  - **IBM 3151:** Ctrl key (left) with minus key (numeric keypad).
  - **ADDS VP, Wyse 60, Wyse 50+, TVI 925, VT320, VT220, VT100, SCO Console, AT386:** Ctrl key (left) with minus key (numeric keypad) or Ctrl key (left) with Scroll Lock/Print Line key.
  - **PCTerm:** Ctrl key (left) with with Scroll Lock/Print Line key.

- The setup menus can be printed on a local attached printer, by using the Print-Page 3153 Local Key (pressing the Ctrl-Shift with the './Del' key (numeric keypad)).

Advanced Power Management

- Turns off components not used during periods of inactivity which reduces power consumption to less than 15 watts.

- Inactivity is defined as no keystroke activity or host system communication for a period of 20 minutes following Screen Saver feature activation.

- The 3153 is initially configured for power management, as a result of 3153 setup option Screen Saver = 15 minutes, and can be disabled by configuring 3153 setup option Screen Saver = 'Off' within the 3153 setup menus.

- When the 3153 is in power management mode, the 3153 Num Lock indicator blinks indicating to the user that 3153 is in power management mode.

- Meets the requirements of US EPA "Energy Star" program.

Character Sets/Code Pages

- 3153 supports the following 7-bit Character Sets:

  - National Replacement Character (NRC) Sets:
      - PC: Danish, Dutch, Finnish, Flemish(Belgian)/French, French Canadian, German, Italian, Latin American Spanish, Norwegian, Portuguese, Spanish, Swedish, Swiss French, Swiss German, UK English, Czech, Hungarian, Polish, Turkish, HR & SLO
      - ANSI: Danish/Norwegian, Dutch, Finnish, Flemish(Belgian)/French, French Canadian, German, Italian, Latin American Spanish, Portuguese, Spanish, Swedish, Swiss French, Swiss German, UK English, Czech, Hungarian, Polish, Turkish, HR & LO
      - ASCII: Danish/Norwegian, Dutch, Flemish(Belgian)/French, French Canadian, German, Italian, Latin American Spanish, Portuguese, Spanish, Swedish/Finnish, Swiss French, Swiss German, UK English, Czech, Hungarian, Polish, Turkish, HR & SLO

  - Other 7-bit Character Sets:
      - IBM Special Graphics (IBM 3151 emulation)
      - ASCII Graphics-1,-2,-3 (ADDS VP, WYSE 60, WYSE 50, TVI 925 emulations)
      - ANSI Special Graphics (DEC VT320, VT220, VT100 emulations)
      - ANSI Scientific (DEC VT320, VT220, VT100 emulations)
      - ANSI Standard (DEC VT320, VT220, VT100 emulations)
      - WYSE Native (WYSE 60, WYSE 50 emulations)

- 3153 supports the following 8-bit IBM and DEC Multinational Code Pages as listed below:

3153 Setup Menu Code Page Parameter	IBM Code Page Global ID (CPGID)	Name	Short Name
CP 437	0437	Personal Computer, USA	PC USA
CP 850	0850	Multilingual Page - Personal Computer	PC Multilingual
CP 852	0852	Latin 2 - Personal Computer	PC Latin 2
CP 857	0857	Latin #5, Turkey - Personal Computer	PC Latin 5
CP 860	0860	Portugal - Personal Computer	PC Portugal
CP 861	0861	Iceland - Personal Computer	PC Iceland
CP 862	0862	Israel - Personal Computer	PC Israel
CP 863	0863	Canadian French - Personal Computer	PC French, Canada
CP 865	0865	Nordic - Personal Computer	PC Nordic
CP 866	0866	Cyrillic #2 - Personal Computer	PC Cyrillic #2
CP 869	0869	Greece - Personal Computer	PC Greece
ISO-1	0819	ISO 8859-1: Latin-1 countries	ISO ANSI/Multilingual
ISO-2	0912	Latin 2 - ISO 8859-2 Multilingual	Multilingual Latin 2
ISO-5	0920	ISO 8859-9 Latin 5	ISO Turkey
ISO-Hebrew	0916	ISO 8859-8: Hebrew	ISO Hebrew
ISO-Cyrillic	0915	ISO 8859-5: Cyrillic, 8-bit	ISO Cyrillic
ISO-Greek	0813	ISO 8859-7: Greek/Latin	Greece
DEC-Multi	----	DEC Multinational	----

- For information on character sets, code pages, and keyboard layouts, refer to: *"National Language Support Reference Manual - Volume 2"* SE09-8002.

3153 Keyboards, Keyboard Languages

- Two keyboard types are available: ASCII-style or PC-style. The ASCII-style keyboard is very similar to the 3151 keyboard available on the 3151 Models 310/360, 410/460. The PC-style keyboard is almost identical to the 3151 keyboard available on the 3151 Models 510/560, 610/660.

PC-style	ASCII-style		PC-style	ASCII-style
Insert	Insert/InsLn		Delete	Delete/DelLn
Home	Home/DEL		End	¬ Tab
Page Up	Clear/ErInp		Page Down	Erase EOF/ErEOP
Ctrl(left)	Ctrl		Alt(left)	Reset/Cancel
Alt(right)	Ctrl(right)		Ctrl(right)	Send
Print Screen	Print/Trace		Scroll Lock	Print Line/PrMsg
Pause/Break	Hold/Break			

- Via 3153 setup, users can select the following keyboard language.

Keyboard Language (Geography)[1]	IBM KBD ID	PC-Style KBD Part Number[2]		ASCII-Style KBD Part Number[2]	
US English (US,CAN,AP,LA)	103P	8131276	02K0805	42H0468	02K0849
US English (EMEA)	103P	8131276	02K0841	8133909	02K0849
Latin American Spanish (US,LA)	171	25H2177	02K0811	42H0470	----------
Canadian French (CAN)	058	25H2163	02K0807	42H0469	----------
Brazilian Portuguese (LA)	275	42H1331	02K0813	----------	----------
UK English (EMEA)	166	8131277	02K0841	8133896	02K0849
German (EMEA)	129	8131278	02K0823	8133897	02K0850
Spanish (EMEA)	172	8131288	02K0836	8133901	----------
French (EMEA)	189	8131299	02K0822	8133900	----------
Italian (EMEA)	142	8131281	02K0828	8133902	----------
Belgian (EMEA)	120	8131280	02K0816	8133903	----------
Swiss German (EMEA)	150G	8131290	02K0838	8133899	----------
Swiss French (EMEA)	150F	8131289	02K0838	8133898	----------
Finnish, Swedish (EMEA)	153	8131282	02K0837	8133904	----------
Norwegian (EMEA)	155	8131283	02K0829	8133906	----------
Portuguese (EMEA)	163	8131284	02K0831	8133907	----------
Danish (EMEA)	159	8131285	02K0820	8133905	----------
Greek (EMEA)	319	8131291	02K0824	8133908	----------
Dutch (EMEA)	143	8131279	02K0821	----------	----------
Turkish F-New (EMEA)	440	8131273	02K0840	----------	----------
Turkish Q-Old (EMEA)	179	8131286	02K0839	----------	----------
Hebrew (EMEA)	212	8131287	02K0825	----------	----------
Russian (EMEA)	441	8131293	----------	----------	----------
Polish (EMEA)	214	8131294	02K0830	----------	----------
Czech (EMEA)	243	8131295	02K0819	----------	----------
Slovak (EMEA)	245	8131296	02K0835	----------	----------
Hungarian (EMEA)	208	8131297	02K0826	----------	----------
Romanian (EMEA)	446	8131298	02K0832	----------	----------
Bosnian (EMEA)	234	8131292	02K0842	----------	----------
Slovenian/Croatian/Serbian (EMEA)	234	8131292	02K0842	----------	----------

Notes:

1 US-United States, CAN-Canada, AP-Asia/Pacific, EMEA-Europe/Middle East/Africa, LA-Latin America

2 The first column is the keyboard part number that IBM offered until July 1998 and the second column is the keyboard part number that IBM offers after July 1998. The second column keyboard part number requires keyboard converter cable (Part Number 11L2832).

International Standards, Guidelines and Programs

ISO Standard 9241 Part 3 Certified

This standard, developed by the ISO (International Organization for Standardization), addresses the following aspects of the monitor's operation:

- Character size, spacing and shape
- Character clarity - the contrast between lit and unlit dots
- Screen linearity and "squareness"
- Screen image stability - flicker and jitter
- Reflections and glare
- User controls - brightness and contrast
- Monitor positioning (lift-tilt-swivel) - adjustment of direction and angle

MPR-II Guidelines

This guideline, developed by the SWEDAC (Swedish Board for Technical Accreditation), recommends the limits for electric, magnetic, and electrostatic fields generated by workstations.

All 3153 models meet the SWEDAC emission recommendation (magnetic and electric field) contained in MPR 1990:10 when tested using the MPR 1990:08 test method.

Regulatory Agency Approvals

- CSA C22.2 No.950 (Canada)
- FCC Certified to comply with Part 15 FCC rules, Class A (US)
- DHHS (US)
- UL 1950 First Edition (US)
- Energy Star (US)
- CISPR 22 Class B (Europe)
- EN60950 (Europe)
- CEMark (Europe)
- GS Mark (Germany)
- VCCI (Japan)
- ZH1/618 (Germany)

US EPA "Energy Star" Program Compliant

This is a voluntary US EPA program for facilitating energy efficient office technology products.

3153 Warranty, Maintenance, Service (United States)

Limited Warranty/Service

- 3153 includes a three-year Customer Carry-in Exchange (CCE) limited warranty via IBM Express Maintenance, Monday through Friday 8:00 a.m. to 5:00 p.m.

- Optional alternative service (warranty upgrades), for a fee, is available. IBM On-site Repair (IOR) is available via an authorized servicer. Two levels of IOR are available:

  - Standard Upgrade - Provides IOR, Monday through Friday, 8:00 a.m. to 5:00 p.m., with same day response.
  - Premium Upgrade - Provides IOR, 24 hours a day, 7 days a week coverage, with same day response.

- For information regarding the terms and conditions of IBM's statement of limited warranty, please call 1-800-772-2227 in the U.S. or 1-800-465-7999 in Canada. In other countries, contact your IBM representative. Copies of IBM's statement of limited warranty are available upon request.

Maintenance

- Following the warranty period, optional IBM On-site Repair (IOR) maintenance, for a fee, is available. Two levels of IOR are available:

  - Standard Upgrade - Provides IOR, Monday through Friday, 8:00 a.m. to 5:00 p.m., with same day response.
  - Premium Upgrade - Provides IOR, 24 hours a day, 7 days a week coverage, with same day response.

Service

- To obtain service, customers should call 1-800-426-7378 (800-IBM-SERV). Problem determination is performed by IBM and the customer. If a replacement element (display, keyboard), IBM will initiate shipment of a replacement element to the customer's location via express delivery. The customer returns the failed element in the shipping carton. Charges for express delivery are paid by IBM.

3153 Model, Part Number Information (Worldwide)

The following tables list the Models and Part Numbers for all geographies: United States(US), Canada(CAN), Latin America(LA), Asia/Pacific(AP), Europe/Middle East/Africa(EMEA).

Description	US Models	CAN Models	LA Models	AP Models	EMEA Models
Green, RS-232 Main Serial Port	BG3	Hxy1	Hxy	Hxy	Hxy
Amber, RS-232 Main Serial Port	BA3	Bxy1	---	---	Bxy
White, RS-232 Main Serial Port	---	---	---	---	Xxy
Green, RS-422 Main Serial Port	CG3	Cxy1	Ixy	Ixy	Ixy
Amber, RS-422 Main Serial Port	CA3	Ixy1	---	---	Cxy
White, RS-422 Main Serial Port	---	---	---	---	Zxy

Notes:

'x' Specifies the keyboard style/type (ASCII or PC):

    CAN: 'A' specifies ASCII-style Keyboard, 'B' specifies PC-style keyboard
    EMEA: 'A' specifies ASCII-style Keyboard, 'B' specifies PC-style keyboard
    AP: '2' specifies ASCII-style Keyboard, '1' specifies PC-style keyboard
    LA: 'A' specifies ASCII-style Keyboard, 'B' specifies PC-style keyboard

'y' Specifies the keyboard language. For a listed of supported keyboards and keyboards languages, refer to "3153 Keyboards, Keyboard Languages" on page 6.

Description	Manufacturing Part Number (Geography)	Field Replacement Unit Part Number
Green (Northern Hemisphere) with RS-232 main port	42H0400 (US,CAN)	25H4317
Amber (Northern Hemisphere) with RS-232 main port	42H0401 (US,CAN)	25H4318
Green (Northern Hemisphere) with RS-422 main port	42H0450 (US,CAN)	42H0443
Amber (Northern Hemisphere) with RS-422 main port	42H0451 (US,CAN)	42H0444
Green (Northern Hemisphere) with RS-232 main port	42H0406 (EMEA)	42H0406
Amber (Northern Hemisphere) with RS-232 main port	42H0407 (EMEA)	42H0407
White (Northern Hemisphere) with RS-232 main port	42H0408 (EMEA)	42H0408
Green (Northern Hemisphere) with RS-422 main port	42H0456 (EMEA)	42H0456
Amber (Northern Hemisphere) with RS-422 main port	42H0457 (EMEA)	42H0457
White (Northern Hemisphere) with RS-422 main port	42H0458 (EMEA)	42H0458
Green (Northern Hemisphere) with RS-232 main port	42H0403 (AP)	42H0403
Green (Northern Hemisphere) with RS-422 main port	42H0453 (AP)	42H0453
Green (Southern Hemisphere) with RS-232 main port	42H0440 (AP)	42H0440
Green (Southern Hemisphere) with RS-422 main port	42H0465 (AP)	42H0465
Green (Equatorial) with RS-232 main port	42H0409 (LA,AP)	42H0409
Green (Equatorial) with RS-422 main port	42H0459 (LA,AP)	42H0459
3153 Users Guide (US English), GA27-4083-01	25H4315 (US,CAN,AP,LA)	-------
3153 Users Guide (Six Language), GA27-4084-01	25H4316 (EMEA)	-------
3153 Reference Manual (US English), GC30-3707-01	42H0793 (US,CAN,AP,LA,EMEA)	-------

Notes:

1 This table does not list power cords.
2 For a listed of supported keyboards and keyboards languages, refer to "3153 Keyboards, Keyboard Languages" on page 6.
3 The Green, Amber, White Video Elements Manufacturing Part Numbers include Keyboard Converter Cable (P/N 11L2832).

3153 Technical Specifications

Serial Communication (Main/Auxiliary) Ports and Parallel Port

Main Serial (SES1-EIA)	Description
Interface	RS232 (3153 Model BG3,BA3) or RS422 (3153 Model CG3,CA3) supporting bidirectional communications. For RS232, configured as a Data Terminal Equipment (DTE). Maximum communication rate of 134.4 kbps.
Usage	Host (direct attach or via modem) or serial printer attachment
Connector Type	Female 25 pin D-shell (DB25)
Pacing (receive) Pacing (send)	Xon-Xoff(XPC), DTR, Xany-Xoff(XPC), Xany-Xoff/DTR, None Xon-Xoff, DSR, Xon-Xoff and DSR, None
RS232 (DTE) Pin Configuration (3153 Model BG3,BA3)	Pin 1 Frame Ground (FG) Pin 2 Transmit Data (TD); Direction-Out Pin 3 Receive Data (RD); Direction-In Pin 4 Request to Send (RTS); Direction-Out Pin 5 Clear to Send (CTS); Direction-In Pin 6 Data Set Ready (DSR); Direction-In Pin 7 Signal Ground (SG); Pin 8 Carrier Detect (CD); Direction-In Pin 20 Data Terminal Ready (DTR); Direction-Out
RS422 Pin Configuration (3153 Model CG3,CA3)	Pin 1 Frame Ground Pin 15 Receive +; Direction-In Pin 17 Receive -; Direction-In Pin 19 Send +; Direction-Out Pin 25 Send -; Direction-Out

Auxiliary Serial (SES2-AUX)	Description
Interface	RS232 supporting bidirectional communications. Configured as a Data Communications Equipment (DCE). Maximum communication rate of 38.4 kbps.
Usage	Host (direct attach or via modem) or serial printer attachment
Connector Type	Female 25 pin D-shell (DB25)
Pacing (receive) Pacing (send)	Xon-Xoff(XPC), DSR, Xany-Xoff/DSR, Xany-Xoff(XPC), None Xon-Xoff, DTR, Xon-Xoff and DTR, None
RS232 (DCE) Pin Configuration	Pin 1 Frame Ground (FG) Pin 2 Receive Data (RD); Direction-In Pin 3 Transmit Data (TD); Direction-Out Pin 4 Request to Send (RTS); Direction-In Pin 5 Clear to Send (CTS); Direction-Out Pin 6 Data Set Ready (DSR); Direction-Out Pin 7 Signal Ground (SG); Pin 8 Carrier Detect (CD); Direction-In Pin 20 Data Terminal Ready (DTR); Direction-In

Parallel (PAR)	Description
Interface	Centronics, supporting unidirectional (output only)
Usage	Parallel Printer
Connector Type	Female 25 pin D-shell (DB25)

Screen Formats, Screen Resolutions, Cell Size, Character Size

Refresh Rate (Hz)	Screen Format (columns/rows)	Screen Resolution (pixels)	Cell Size (pixels)	Character Size (pixels)	Overscan
60	80 x 26	800 x 450	10 x 15	7 x 9	Yes
	80 x 52	800 x 468	10 x 9	5 x 7	Yes
	132 x 26	1188 x 450	9 x 15	7 x 9	Yes
	132 x 52	1188 x 468	9 x 9	5 x 7	Yes
71	80 x 26	800 x 390	10 x 15	7 x 9	Yes
	80 x 44	800 x 396	10 x 9	5 x 7	Yes
	132 x 26	1188 x 390	9 x 15	7 x 9	Yes
	132 x 44	1188 x 396	9 x 9	5 x 7	Yes
82	80 x 26	800 x 338	10 x 13	7 x 9	Yes
	132 x 26	1188 x 338	9 x 13	7 x 9	Yes
100	80 x 26	800 x 338	10 x 13	7 x 9	No
	132 x 26	1188 x 338	9 x 13	7 x 9	No

Notes:

26, 30, 44 and 52 rows includes optional top/bottom status lines.

Character size does not include pixels for ascenders and descenders.

Refresh Rate, Screen Format, and Overscan are 3153 setup parameters.

Physical

The following table lists the physical specifications after the 3153 is installed.

Element	Width	Depth	Height	Weight
Display with Tilt/Swivel	318 mm (12.5 in.)	340 mm (13.4 in.)	330 mm (13.0 in.)	7.7 kg (16.9 lbs.)
Keyboard	451 mm (17.76 in.)	158 mm (6.22 in.)	38 mm (1.5 in.)	0.9 kg (2 lbs.)

Notes:

Tilt/Swivel Stand has +15° to -3° of tilt, +/-135° of swivel and is not detachable from the display element

Keyboard has a coiled cable and is not detachable from the keyboard

The following table lists the physical specifications when the 3153 is in the shipping carton, including packaging material.

Element	Width	Depth	Height	Weight
Display and Keyboard	16.0 in.	21.5 in.	21.3 in.	28 lbs.

Environmental

Measurement	Temperature	Relative Humidity
Operating Power off, Shipping, Storage	10.0 - 40.0°C (50 - 105°F) 0 - 50.0°C	30 - 80% 10 - 95%
Notes:		
The higher level of humidity for shipping allows for condensation but not direct contact with moisture. Maximum altitude: 4,048 m (10,000 feet)		

Electrical

Universal Voltage	Max Heat Dissipation	Max Power Consumption	Typical Power Consumption	Max earth leakage current
90 - 264 V ac, 47-63 Hz	222 BTU/Hr	65 watts	41 watts*	500 microamps
Notes:				
Power consumption is reduced to less than 15 watts when power management feature is enabled. Power Cord is 6 feet				

Acoustics

- Declared acoustical noise emissions LWAD = 4.5 Bels or less. The noise emission level stated is the declared (upper limit) A-weighted sound power level, in Bels, for a random sample of monitors. All measurements are made in accordance with ANSI S12.10 and reported in conformance with ISO 9296.

3153 Marketing Resources, Manuals, Information via WWW

IBM Personal Systems Group (PSG) Fax System (1-800-IBM-3395)

Fax Doc#	Item
11016	3153 ASCII Display Station - Specification Sheet
10005	3153 ASCII Display Station - Marketing Reference Guide

IBM Fax Service (1-800-IBM-4FAX)

Fax Doc#	Item
3575	3153 ASCII Display Station - Specification Sheet
5704	3153 ASCII Display Station - Marketing Reference Guide

IBM Market Tools (MKTTOOLS) - IBM Systems

Package Name	Item
G2214411	InfoWindow II 3153 - Specification Sheet
G5209415	InfoWindow II 3153 - Marketing Reference Guide

- To obtain a package from MKTTOOLS, enter the following VM/PROFS command (substitute ???????? with the above package name):

  TOOLS SENDTO USDIST MKTTOOLS MKTTOOLS GET ???????? PACKAGE

Manuals

Order Number	Item
GA27-4083-01	InfoWindow II 3153 User's Guide (English)
GA27-4084-01	InfoWindow II 3153 User's Guide (Six Languages)
GC30-3707-01	InfoWindow II 3153 Programmers Reference Manual (English)

Information via World Wide Web (www)

The following WWW sites have information on the 3153:

- IBM Technical Support (http://service.boulder.ibm.com)
  - Select 'RS/6000 Technical Support', 'Databases', 'Hints & Tips' then 'IBM 3153 Support Documents'
- IBM Enterprise and Personal Computing Solutions (http://www.pc.ibm.com/us/)
  - Select 'Support', 'IBM Monitors', 'Terminals' then '3153'

3153 Ordering (United States)

3153 Configuration Factors

The following items determine the 3153 configuration to be ordered:

- Main Serial Communications Port Interface: RS232 or RS422.
- Display Element Phosphor: Green or Amber
- Keyboard Layout: PC-style or ASCII-style
- Keyboard Language: US English or Latin American (LA) Spanish

IBM Ordering Systems

- **Machine-Type, Model, Feature Code (IBM AAS ordering system):**

  - 3153 Models:
    - BG3: RS232 Main Serial Communications port-Green
    - BA3: RS232 Main Serial Communications port-Amber
    - CG3: RS422 Main Serial Communications port-Green
    - CA3: RS422 Main Serial Communications port-Amber
  - 3153 Feature Codes:
    - #9131: PC-style keyboard (US English)
    - #9132: PC-style keyboard (LA Spanish)
    - #9231: ASCII-style keyboard (US English)

- **Part Number (IBM GEMS ordering system):**

  - A unique 7-digit part number for every 3153 configuration.

The table below list the 3153 Model BG3,BA3 and Model CG3,CA3 configurations; Part Number (GEMS) and Machine-Type-Model-Feature (AAS) Ordering Information.

Interface	Display	Keyboard Layout	Keyboard Language		Part Number (GEMS)	Machine-Model-Feature (AAS)
RS-232	Green	PC-style	English		42H0471	3153-BG3, Feature #9131
RS-232	Amber	PC-style	English		42H0472	3153-BA3, Feature #9131
RS-232	Green	ASCII-style	English		42H0772	3153-BG3, Feature #9231
RS-232	Amber	ASCII-style	English		42H0773	3153-BA3, Feature #9231
RS-232	Green	PC-style	Spanish		42H0775	3153-BG3, Feature #9132
RS-232	Amber	PC-style	Spanish		42H0776	3153-BA3, Feature #9132
RS-422	Green	PC-style	English		42H0781	3153-CG3, Feature #9131
RS-422	Amber	PC-style	English		42H0782	3153-CA3, Feature #9131
RS-422	Green	ASCII-style	English		42H0784	3153-CG3, Feature #9231
RS-422	Amber	ASCII-style	English		42H0785	3153-CA3, Feature #9231
RS-422	Green	PC-style	Spanish		42H0787	3153-CG3, Feature #9132
RS-422	Amber	PC-style	Spanish		42H0788	3153-CA3, Feature #9132

3153 Host/Printer Cabling/Communication Information

This section provides: General, RS/6000, and AS/400 cabling/communication reference information.

General

The following items need to be considered when cabling the 3153 to a host and/or printer:

- **Know DTE to DTE, DCE to DCE, and DTE to DCE cabling:**
  - DTE to DTE: Requires a null modem cable, in other words, a cable that has transmit, receive data pins interposed.
  - DCE to DCE: Requires a null modem cable, in other words, a cable that has transmit, receive data pins interposed.
  - DTE to DCE: Requires a straight through modem cable, in other words, a cable that does not have transmit, receive data pins interposed.
- **Know the 3153, Host, Modem, and Printer Communication Interfaces:**
  - 3153:
    - Main Port: RS-232 configured as a DTE (3153 Model BG3,BA3) or RS-422 (3153 Model CG3,CA3)
    - Auxiliary Port: Always RS-232 and configured as a DCE.
    - Parallel Port: Always configured as a parallel port.
  - Host:
    - RS-232 Interface: Is host RS-232 port configured as a DTE or DCE. In general, host RS-232 communication ports are typically configured as DTE. May attach to the 3153's Main Port (3153 Model BG3,BA3 only) or Auxiliary Port.
    - RS-422 Interface: Attaches to 3153's Main Port (3153 Model CG3,CA3 only).
  - Modem:
    - RS-232 Interface: Is modem RS-232 serial port configured as a DTE or DCE. In general, modems RS-232 communication ports are typically configured as DCE. May attach to the 3153's Main Port (3153 Model BG3,BA3 only) or Auxiliary Port.
  - Printer:
    - Serial: Is printer's RS-232 serial port configured as a DTE or DCE. In general, printers RS-232 communication ports are typically configured as a DTE. May attach to the 3153's Main Port (3153 Model BG3,BA3 only) or Auxiliary Port.
    - Parallel: Attaches to 3153's parallel port.
- **Determine 3153 Single or Dual Session Operation:**
  - Single Session using Single Port
    - Requires "Session = One" in 3153 setup.
    - Can use either 3153's main or auxiliary port as the host port.
  - Dual Session using Dual Port
    - Requires "Session = Two" in 3153 setup.
    - Must use of both 3153's main and auxiliary port as the host port requiring two communications cable.
- **Know 3153 'Host/Printer' Setup Parameter:**
  - The following table lists the recommended 'Host/Printer' setup parameter based on host/printer configurations.

Configuration	3153 Main Port as Host	3153 Auxiliary Port as Host
Single Host, No Printer	Host/Printer = EIA/None	Host/Printer = Aux/None
Single Host and Serial Printer	Host/Printer = EIA/Aux	Host/Printer = Aux/EIA
Single Host and Parallel Printer	Host/Printer = EIA/Para	Host/Printer = Aux/Para

RS/6000

3153 to RS/6000 Cabling

RS/6000 Async Adapter/Controller	RS/6000 Cable for 3153 Main Port (RS232-DTE)	RS/6000 Cable for 3153 Main Port (RS422)	RS/6000 Cable for 3153 Auxiliary Port (RS232-DCE)
Native RS232, one-device, serial port [1] (Male DB25 as a DTE)	I, or D with E	Not Applicable	D
Native RS232, two-device, serial port [1] (Male DB25 as a DTE)	AS with I, or AS with D with E	Not Applicable	AS with D
Native RS232 serial port [1] (Male DB9 as a DTE)	AR with I, or AR with D with E	Not Applicable	AR with D
8 or 16-Port RS232 MCA Async Adapter (Male DB25 as a DTE)	I, or D with E	K	D
8-Port RS232 ISA Async Adapter (Male DB25 as a DTE)	I, or D with E	Not Applicable	D
8-Port RS232/RS422 ISA Async Adapter (Male DB25 as a DTE)	I, or D with E	K	D
64-Port RS232 Concentrator (16 ports each) (Female 8-pin RJ45 as a DTE)	53F3367 with E	Not Applicable	53F3367
128-port RS232 Remote Async Node (RAN) (Female 10-pin RJ45 as a DTE)	NK with I, or NK with D with E, or NL [3]	Not Applicable	NK with D, or NM [3]
7318 Terminal Server (Model P10 or S20) (Female 8-pin RJ45 as a DTE)	65G2373 with 65G2376	Customer Supplied [2]	65G2373 with 65G2375

Notes:

1 Most RS/6000 have one of three native serial ports listed above. Refer to your RS/6000 manual to determine the native serial port type.

2 Refer to the "P10 Serial Port RS422 Printer Cabling" section in the cabling appendix of: *"7318 Guide and Reference"* (SC23-1731) or *"AIX Version 3.2 and 4.1 Asynchronous Communications Guide"* (SC23-2488). Also note that only RS423 distances are supported for 7318 ports connected to RS422 devices.

3 These cables are customer supplied. Refer to the *Adapters, Devices, and Cable Information"* (SC23-2764) for connector pinout and other information.

RS/6000 Cable Information

RS/6000 Cable Name	RS/6000 Description	RS/6000 Cable Letter	RS/6000 Part Number	RS/6000 Feature Code
Async Cable RS232/V.24 (straight through/modem cable)	10-foot Female DB25 system end to Male DB25 device end	D	6323741	2936
Printer/Terminal Interposer (null modem adapter)	2-inch Female DB25 system end to male DB25 device end	E	58F2861	2937
RS232 Printer/Terminal Cable (null modem cable)	10-foot Female DB25 system end to Male DB25 device end	I	12H1204	2934
RS422 Terminal Cable	65-foot Female DB25 system end to Male DB25 device end	K	30F8966	2945
RJ45 to DB25 Converter Cable (four per order)	2-foot Male RJ45 64-port Concentrator end to Male DB25 device end	---	59F3432	---
RJ45 to DB25 Converter Cable (four per order)	2-foot Male RJ45 128-port RAN end to Male DB25 device end	NK	43G0935	8133
DB25 to Dual DB25 Splitter Cable (Y-cable)	6-inch Female DB25 system end to Dual Male DB25 device end	AS	31F4590	3107
DB9 to DB25 Converter Cable	1-Foot Female DB9 system end to Male DB25 device end	AR	40H6328	----
RJ45 to RJ45 Extender Cable	10-Foot Male RJ45 7318 Async Port end to Male RJ45 device end	---	65G2373	7901
RJ45 to DB25 Adapter	2-inch Female RJ45 7318 Async Port end to Male DB25 device end	---	65G2376	7904
RJ45 to DB25 Adapter	2-inch Female RJ45 7318 Async Port end to Male DB25 device end	---	65G2375	7903
Notes:				
'System End' refers to the RS/6000 and 'Device End' refers to the 3153.				

AS/400

3153 to AS/400 Cabling

AS/400 Workstation ASCII Controller	AS/400 Cable for 3153 Main Port (RS232-DTE)	AS/400 Cable for 3153 Main Port (RS422)	AS/400 Cable for 3153 Auxiliary Port (RS232-DCE)
6 or 12-Port RS-232 ASCII Attachment (Female DB25 as a DCE)	21F4339 or 21F4344	Not Applicable	59X3833
6 or 12-Port RS-422 ASCII Attachment (Female DB25)	Not Applicable	21F4348	Not Applicable

AS/400 Cable Information

AS/400 Cable Name	AS/400 Cable Description	AS/400 Cable Part Number	AS/400 Order Part Number
RS-232 Modem Cable (Straight through)	20-foot Male 25 pin D-Shell to Male 25 pin D-Shell	21F4339	21F4505
RS-232 Modem Cable (Straight through)	40-foot Male 25 pin D-Shell to Male 25 pin D-Shell	21F4344	21F4342
RS-232 Null Modem Cable (Interposed)	20-foot Male 25 pin D-Shell to Male 25 pin D-Shell	59X3833	69X7017
RS-422 Cable	100-foot Male 25 pin D-Shell to Male 25 pin D-Shell	21F4348	21F4346

3153 Recommended Setup Values

General

When configuring an IBM 3153 for IBM 3151 emulation, this section lists recommended 3153 setup values when attached to: RS/6000, AS/400, 4690 Store System (Retail Store Systems)

The sections in the following pages have tables that list:

- 3153 Setup Menus
  - Quick, General, Display, Keyboard, Keys, Ports, Host, Print, Emulation, Tabs
- 3153 Setup Parameters
- Recommended Settings

The 3153 setup parameters affect the 3153 operation when attached to any host system that supports attachment of ASCII/ANSI/PC terminals. Persons installing the 3153 should be familiar 3153 setup menus and host system (hardware, operating system and applications) configuration. The ASCII/ANSI/PC emulation selected within the 3153 must match the ASCII/ANSI/PC emulation selected within host system.

Setup parameters can be grouped into three areas:

- Communications: The 3153 must match the host's port speed, parity, word length and pacing parameters. If Communication Setup Parameters do not match, the 3153 will not communicate with the host system or to a 3153 attached printer.
- Display/Keyboard: Display Setup parameters determine if the data from the application is properly displayed. Parameters include: rows, columns, Auto Scroll, Auto Wrap, Receive CR, Forcing Insert, and Character Set. Keyboard Setup parameters determines if the keyboard is works correctly. Parameters include: Key Mode, Return Key, Enter Key, Insert Character, New Line, Send Key and Turnaround Character.
- User Preference: Some 3153 setup parameters can be customized to the user's preference. Parameters include: Bell Volume, Bell Length, or Cursor Style.

Note: Many of the 3153 setup parameters can be modified from the host system.

The following IBM related publications are available:

- RS/6000
  - *"AIX Version 3.2 and 4.1 Asynchronous Communications Guide"* SC23-2488
  - *"AIX Version 3.2 System Management Guide: Operating System System"* GC23-2486
  - *"POWERstation and POWERserver - MCA Adapters, Devices and Cable Info"* SA23-2764
  - *"POWERstation and POWERserver - ISA/PCI Adapters, Devices and Cable Info"* SA23-2778
  - *"7318 Guide and Reference"* SC23-1731
- AS/400
  - *"AS/400 Physical Planning Guide and Reference V2"* GA41-9571
  - *"AS/400 ASCII Workstation Reference V2 R3"* SA41-9922
  - *"AS/400 Workstation Customization Programming V3 R1.0"* SC41-3605
  - *"AS/400 ASCII Workstation Reference V3 R1.0"* SA41-3130
  - *"AS/400 Physical Planning Reference V3 R1.0"* SA41-3109
  - *"AS/400 Physical Planning Reference V3 R6"* SA41-4109
- 4690 Store System (Retail Store Systems)
  - *"4690 Planning, Installation and Configuration Guide"* GC30-3600

RS/6000

The 3153 factory default (initial) setup values were selected based on RS/6000 attachment. These 3153 setup values should result in quick setup.

One 3153 setup parameter that may require a change, based on application character set/code page requirements, is: 'Char Set' and 'Code Page' in 'Keyboard' setup menu. Select:

- Char Set=Multinational
- Code Page=CP 437, or CP 850, or ISO-1

Quick (F1-Quick)	
Emulation	IBM 3151 NOTE: Must match the Terminal type specified in AIX
Comm Mode	Full Duplex
Host/Printer	EIA/Aux or EIA/Para or EIA/None: If 3153 Main serial (SES 1-EIA) port is used for connection to the RS/6000.
	Aux/EIA or Aux/Para or Aux/None: If 3153 Auxiliary serial port (SES 2-AUX) port is used for connection to the RS/6000.
EIA Baud Rate	Select the line speed to match the RS/6000 host setting. The RS/6000 default setting is 9,600 bps.
Aux Baud Rate	Select the line speed to match the RS/6000 host setting. The RS/6000 default setting is 9,600 bps.
EIA Data Format	Select the EIA Data Format to match the RS/6000 host setting. The RS/6000 default setting is 8/1/N.
Aux Data Format	Select the Aux Data Format to match the RS/6000 host setting. The RS/6000 default setting is 8/1/N.
Sessions	One: For use of 3153 in single session by single port. The 3153 main (SES 1-EIA) or the auxiliary (SES 2-AUX) serial communications port can be used for RS/6000 attachment.
	Two: For use of 3153 in dual session by dual port. Requires use of 3153's main (SES 1-EIA) and the auxiliary (SES 2-AUX) serial communications port.

General (F2-Genrl)	
Emulation	IBM 3151 NOTE: Must match the Terminal type specified in AIX
Curs Dir	Left to Right (except when Language is Hebrew)
Auto Scroll	On
Auto Wrap	On
Monitor Mode	Off
Sessions	One: For use of 3153 in single session by single port. The 3153 main (SES 1-EIA) or the auxiliary (SES 2-AUX) serial communications port can be used for RS/6000 attachment.
	Two: For use of 3153 in dual session by dual port. Requires use of 3153's main (SES 1-EIA) and the auxiliary (SES 2-AUX) serial communications port.

Display (F3-Displ)	
Display Cursor	On
Pages	1
Columns	80/132: For use of 3153 in 80 or 132 columns.
Page Length	24/25/28/42/43/48/50: For use of 3153 in 24, 25, 28, 42, 43, 48 or 50 rows.
Scroll	Jump
Viewports	1
Screen Video	Normal

Keyboard (F4-Kybd)	
Char Set	National: For use of 3153 in 7-bit National Replacement Character Set Multinational: For use of 3153 in 8-bit multinational code pages (CP 437, 850, 852, 857, 860, 861, 862, 863, 866, 869, ISO-1, ISO-5, ISO-Hebrew, ISO-Cyrillic, ISO-Greek)
Key Mode	ASCII

Keys (F5-Keys)	
Return Key	New Line
UDKs	Emul Dependent
Enter Key	Return
Insert Character	Space
New Line	CR

Ports (F6-Ports)	
EIA Baud Rate	Select the line speed to match the RS/6000 host setting. The RS/6000 default setting is 9,600 bps.
Aux Baud Rate	Select the line speed to match the RS/6000 host setting. The RS/6000 default setting is 9,600 bps.
EIA Xmt	Xon-Xoff
Aux Xmt	Xon-Xoff
EIA Data Format	Select the EIA Data Format to match the RS/6000 host setting. The RS/6000 default setting is 8/1/N.
Aux Data Format	Select the Aux Data Format to match the RS/6000 host setting. The RS/6000 default setting is 8/1/N.
EIA Recv	Xon-Xoff(XPC)
Aux Recv	Xon-Xoff(XPC)
EIA Parity Check	Off
Aux Parity Check	Off
EIA Xmt Pace	Baud
Aux Xmt Pace	Baud

Host (F7-Host)	
Comm Mode	Full Duplex
Break	500 ms
Recv <CR>	<CR>
Alt Input Data	On
Local	Off
Line Control	IPRTS
Turnaround Char	<CR>
Null Suppress	Off
Send ACK	On
Send Null Suppress	On

Print (F8-Print)	
Indep Pass Thru	Off

Emulation (F9-Emul)	
Force Insert	Off
Char Set	National

Tabs (F10-Tabs)	
Tab	Field

AS/400

The 3153 is supported as an AS/400 System Console (OS/400 V3 R1 or higher) when configured for IBM 3151 emulation.

Quick (F1-Quick)	
Emulation	IBM 3151
Enhanced	On
Comm Mode	Full Duplex
Host/Printer	EIA/Aux or EIA/Para or EIA/None: If 3153 Main serial (SES 1-EIA) port is used for connection to the AS/400.
	Aux/EIA or Aux/Para or Aux/None: If 3153 Auxiliary serial port (SES 2-AUX) port is used for connection to the AS/400.
EIA Baud Rate	Select the line speed to match the AS/400 host setting. The AS/400 default setting is 19,200 bps.
Aux Baud Rate	Select the line speed to match the AS/400 host setting. The AS/400 default setting is 19,200 bps.
Language	Select the Keyboard Language to match the AS/400 host setting.
EIA Data Format	Select the EIA Data Format to match the AS/400 host setting. The AS/400 default setting is 8/1/E.
Aux Data Format	Set Aux Data Format to match the AS/400 host setting. The AS/400 default settings is 8/1/E.
Sessions	One: For use of 3153 in single session by single port. The 3153 main (SES 1-EIA) or the auxiliary (SES 2-AUX) serial communications port can be used for AS/400 attachment.
	Two: For use of 3153 in dual session by dual port. Requires use of 3153's main (SES 1-EIA) and the auxiliary (SES 2-AUX) serial communications port.

General (F2-Genrl)	
Emulation	IBM 3151
Curs Dir	Left to Right (except when Language is Hebrew)
Enhanced	On
Auto Scroll	On
Auto Wrap	Off
Monitor Mode	Off
Sessions	One: For use of 3153 in single session by single port. The 3153 main (SES 1-EIA) or the auxiliary (SES 2-AUX) serial communications port can be used for AS/400 attachment.
	Two: For use of 3153 in dual session by dual port. Requires use of 3153's main (SES 1-EIA) and the auxiliary (SES 2-AUX) serial communications port.

Display (F3-Displ)	
Display Cursor	On
Pages	1
Columns	80: For use of 3153 in 24 rows by 80 columns (Mode 2).
	132: For use of 3153 in 27 rows by 132 columns (Mode 5).
Page Length	24: For use of 3153 in 24 rows by 80 columns (Mode 2).
	28: For use of 3153 in 27 rows by 132 columns (Mode 5).
Scroll	Jump
Viewports	1
Screen Video	Normal

Keyboard (F4-Kybd)	
Language	Select the Keyboard Language to match the AS/400 host setting.
Char Set	National
Key Mode	ASCII

Keys (F5-Keys)	
Return Key	New Line
Send Key	Page
UDKs	Emul Dependent
Enter Key	Send
Insert Character	Space
New Line	CR

Ports (F6-Ports)	
EIA Baud Rate	Select the line speed to match the AS/400 host setting. The AS/400 default setting is 19,200 bps.
Aux Baud Rate	Select the line speed to match the AS/400 host setting. The AS/400 default setting is 19,200 bps.
EIA Xmt	Xon-Xoff
Aux Xmt	Xon-Xoff
EIA Data Format	Select the EIA Data Format to match the AS/400 host setting. The AS/400 default setting is 8/1/E.
Aux Data Format	Set Aux Data Format to match the AS/400 host setting. The AS/400 default settings is 8/1/E.
EIA Recv	Xon-Xoff(XPC)
Aux Recv	Xon-Xoff(XPC)
EIA Parity Check	Off
Aux Parity Check	Off
EIA Xmt Pace	Baud
Aux Xmt Pace	Baud

Host (F7-Host)	
Comm Mode	Full Duplex
Break	500 ms
Recv <CR>	<CR>
Alt Input Data	On
Local	Off
Line Control	IPRTS
Turnaround Char	<ETX>
Null Suppress	Off
Send ACK	On
Send Null Suppress	On

Print (F8-Print)	
Indep Pass Thru	Off

Emulation (F9-Emul)	
Force Insert	Off
Char Set	National

Tabs (F10-Tabs)	
Tab	Field

4690 Store Controller (Retail Store Systems): Auxiliary Console

The 3153 attaches to the 4690 Store controller via IBM's ARTIC adapter card (RS-232 or RS-422) or via the 4690 Store controller serial ports (RS-232).

Quick (F1-Quick)	
Emulation	IBM 3151
Enhanced	On
Comm Mode	Full Duplex
Host/Printer	EIA/Aux or EIA/Para or EIA/None: If 3153 Main serial (SES 1-EIA) port is used for connection as the main console.
	Aux/EIA or Aux/Para or Aux/None: If 3153 Auxiliary serial port (SES 2-AUX) port is used for connection as the main console.
EIA Baud Rate	Select the line rate that was configured for the auxiliary consoles. The 4690 Operating System default setting is 9600 bps.
Aux Baud Rate	Select the line rate that was configured for the auxiliary consoles. The 4690 Operating System default setting is 9600 bps.
Language	Select the language that matches the language selected for your main console.
EIA Data Format	8/1/N
Aux Data Format	8/1/N
Sessions	One

General (F2-Genrl)	
Emulation	IBM 3151
Curs Dir	Left to Right (except when Language is Hebrew)
Enhanced	On
Auto Scroll	On
Auto Wrap	Off
Monitor Mode	Off
Sessions	One

Display (F3-Displ)	
Display Cursor	On
Pages	1
Columns	80
Page Length	25
Scroll	Jump
Viewports	1
Screen Video	Normal

Keyboard (F4-Kybd)	
Language	Select the keyboard language which matches the keyboard language support of the main console.
Key Mode	Scan Code
Code Page	The default code page is based on the language selected

Keys (F5-Keys)	
Desk Acc	Ctrl¬
UDKs	Emul Dependent
New Line	<CR>

Ports (F6-Ports)	
EIA Baud Rate	Select the line rate that was configured for the auxiliary consoles. The 4690 Operating System default setting is 9600 bps.
Aux Baud Rate	Select the line rate that was configured for the auxiliary consoles. The 4690 Operating System default setting is 9600 bps.
EIA Xmt	Xon-Xoff
Aux Xmt	Xon-Xoff
EIA Data Format	8/1/N
Aux Data Format	8/1/N
EIA Recv	Xon-Xoff(XPC)
Aux Recv	Xon-Xoff(XPC)
EIA Parity Check	Off
Aux Parity Check	Off
EIA Xmt Pace	Baud
Aux Xmt Pace	Baud

Host (F7-Host)	
Comm Mode	Full Duplex
Break	500 ms
Recv <CR>	<CR>
Alt Input Data	On
Local	Off
Line Control	PRTS
Turnaround Char	<CR>
Null Suppress	Off
Send ACK	On
Send Null Suppress	On

Print (F8-Print)	
Indep Pass Thru	Off

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