

IBM 3151 ASCII DISPLAY STATION

Contents

[Announcement Letter Number 187-132 dated June 16, 1987](#)[US - Last Revised on June 16, 1987](#)**Brief Description of Announcement, Charges, and Availability.**

IBM 3151 ASCII Display Station extends the IBM ASCII Display family to a two-element, 14-inch flat screen design. The logic and CRT are combined into a single element. The various models span the range from an entry level, 80-column display to a full function, 132-column display. The IBM 3151 Models 310/410 and 360/460 feature new slim-line cartridges that expand the functional capabilities of these models.

The IBM 3151 ASCII Display Stations offer a one-year or a three-year warranty.

Purchase Price:

- o One-Year Warranty Models:
 - 3151 Model 160: \$399
 - 3151 Models 360, 460: \$525
- o Three-Year Warranty Models
 - 3151 Model 110: \$429
 - 3151 Models 310, 410: \$555

Features (Models 310, 410, 360, 460):

- o 8505: \$25 (Cartridge to emulate Wyse(1) WY-50/50+ terminals)
- o 8235: \$50 (Cartridge to emulate IBM and DEC(2) terminals)

Planned Availability: First customer shipment is planned for June 1987.

The IBM 3151 ASCII Display Stations are offered in the following combinations:

- o 3151 110, 160: 80-column, Green, 84-key Keyboard, RS232C Communications
- o 3151 310, 360: 132-column, Green, 102-key Keyboard, RS232C Expandable to RS422A via Cartridge

- o 3151 410, 460: 132-column, Amber-Gold, 102-key Keyboard, RS232C Expandable to RS422A via Cartridge

(1) Trademark of Wyse Technology.

(2) Trademark of Digital Equipment Corporation.

Customer Letter Section

HIGHLIGHTS

- o Compact, two-element design: monitor and keyboard
- o 14-inch, flat screen display
- o IBM 316X compatible keyboard
- o Higher communication speed (38.4K bps)
- o 10 emulations for attaching to non-IBM systems included in base
- o Native mode compatible with IBM 3161 ASCII Display Stations
- o Slim-line cartridge (approximately the size of a credit card) for additional attachment capabilities

DESCRIPTION

The IBM 3151 ASCII Display Station is a two-element workstation that provides attachment capabilities to both IBM and non-IBM processors. A native mode and 10 non-IBM emulation modes are included in the base of all models. The Model 110 should be used for entry level applications requiring an 80-column display. Models 310 and 410 (which are functionally identical to each other except for the color of the display phosphor) should be used with applications that require 80- or 132-characters-per-line capability, 3101 emulation, a dedicated numeric keypad, Program Access (PA) keys, greater than 12 function keys or RS422A capability via cartridge. Additional emulations and attachment capabilities are provided in two new slim-line cartridges for Models 310 and 410. Refer to the LIMITATIONS and DESCRIPTION sections for specific details on the limitations and compatibility of the various models.

A brief summary of capabilities of the IBM 3151 models follows:

	MODELS		
	110/160	310/360	410/460
Video (Green)	X	X	
Video (Amber-Gold)			X
Keyboard (84 Keys)	X		

12 Function (F) Keys	X	X	X
Keyboard (102-key)		X	X
(F) Keys Shiftable to 24/36		X	X
Program Access (PA) Keys		X	X
80-column Mode	X	X	X
132-column Mode		X	X
10 non-IBM Emulations	X	X	X
3101 Emulation		X	X
38.4K bps Speed	X	X	X
RS232C Communications	X	X	X
RS422A Communications		X*	X*
DEC VT220/100/52 Emulation		X*	X*
Wyse WY-50/50+ Emulation		X**	X**

* Only available with the IBM 3151 Cartridge to emulate IBM and DEC terminals.

** Only available with the IBM 3151 Cartridge to emulate Wyse WY-50/50+ terminals.

The key features of the IBM 3151 ASCII Display Station are:

- o Display
 - 14-inch monochrome monitor: green or amber-gold, anti-smudge, anti-glare
 - Flat screen
 - Tilt display with optional tilt/swivel stand
 - 24/25 display lines, 80 or 132 characters per line (models 310/410)
 - Field and character attributes for blinking, highlighting, reverse video, underlining, and non-display
 - CRT saver
- o 84-Key Space Saving Keyboard (Model 110/160 only)
 - Low profile
 - Tactile touch
 - Flat coiled cable
 - 12 non-shiftable function keys
 - Dedicated editing keys
 - Numeric keys imbedded in the typewriter area

- Non-recappable
- o 102-Key Enhanced Keyboard (Models 310/410 and 360/460 only)
 - Low profile
 - Tactile touch
 - Flat coiled cable
 - 12 function keys shiftable to 36 function keys
 - Three Program Access (PA) keys
 - Dedicated editing keys
 - Separate numeric keypad with line-drawing characters
 - Recappable keys
- o Communication
 - 50 to 38.4k bps communication speed
 - Character/echo/block mode transmissions
- o Auxiliary Interface
 - Buffered port with serial RS232
 - Bidirectional data capability (Models 310/410 and 360/460 only)
- o Improved Functions
 - 10 non-IBM ASCII emulations in base
 - 38.4k bps communication speed
 - RS422A support via cartridge (Models 310/410 and 360/460 only)
- o Emulations in Base
 - TeleVideo(3) 925E/925/920/921/910+/910
 - Lear Siegler(4) ADM 3A/5
 - ADDS(5) VP A2
 - HZ(6) 1500
 - IBM 3101 (Models 310 and 410 only)

(3) Trademark of TeleVideo Systems, Incorporated.
(4) Registered trademark of Zentec Corporation.
(5) Trademark of Applied Digital Data Systems, Incorporated.
(6) Trademark of Esprit Systems, Incorporated.
- o IBM 3151 Cartridges (Models 310/410 and 360/460)
 - Cartridge to emulate WYSE WY-50/50+ terminals (Models 310/410 and 360/460 only)
 - Wyse WY-50/50+
 - Wyse 50/50+ Expansion Data Streams for the following emulations:

- TeleVideo 925E/925/920/912/910+/910
- Lear Siegler ADM 3A/5
- ADDS VP A2
- HZ 1500
- IBM 3101
- 3151 native.

Cartridge to emulate IBM and DEC terminals (Models 310/410 and 360/460)

- RS422A communications option
- Mode switch without cartridge removal
- 3708 enhanced attachment mode
- Native/3101 modes
- DEC VT220/100/52 modes
- 10 non-IBM ASCII emulations (same as 10 base emulations)

PROGRAMMING DESCRIPTION

The IBM 3151 native mode is a superset of the 3161 native mode. (Exceptions: The 3151 Model 110/160 supports 12 function keys instead of 24 function keys; does not support Program Access (PA) keys, line-drawing keys, or super/subscript keys; and does not support the split screen function of the IBM 3161.) The existing IBM host programming support for the 3161 is applicable to the IBM 3151 native mode.

In addition, 132-character support in IBM 3151 Models 310/410 and 360/460 is implemented in the same manner as the 3162, so that host applications using 24 lines by 80 or 132 characters per line are compatible. The 29 lines mode of the IBM 3162 is not supported on the IBM 3151.

There is a 3101 mode in IBM 3151 Models 310/410 and 360/460 ONLY. Users requiring 3101-881 compatibility should use these models.

The RS422A communications option is provided on the IBM and DEC cartridge for IBM 3151 Models 310/410 and 360/460. This cartridge is needed for RS422A communications to a host.

PUBLICATIONS

The following publications are shipped with the model or cartridge as appropriate:

TITLE	ORDER NUMBER
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IBM 3151 ASCII Display Station

Guide to Operations GA18-2633

User's Guide for IBM 3151 Cartridge

to Emulate IBM and DEC Terminals GA18-2654

User's Guide for IBM 3151 Cartridge

to Emulate Wyse WY-50/50+ Terminals GA18-2657

Additional copies are available immediately.

The following publications are available immediately. To order, contact your IBM representative.

ORDER

TITLE

NUMBER

IBM 3151 ASCII Display Station

Reference Manual GA18-2634

User's Guide for IBM 3151 Cartridge

to Emulate IBM and DEC Terminals GA18-2654

User's Guide for IBM 3151 Cartridge

to Emulate Wyse WY-50/50+ Terminals GA18-2657

IBM 3151 ASCII Display Station Repair

Center Maintenance Information SY18-2196

SLSS is available by order number only.

SCHEDULE

First customer shipment of IBM 3151 and the IBM 3151 Cartridges is planned for June 1987.

TECHNICAL INFORMATION

SPECIFIED OPERATING ENVIRONMENT

SYSTEM SUPPORT: The 3151 support is provided by the current version of the following systems and licensed programs:

SYSTEMS TO

WHICH IBM	3151-110/	3151-310/410
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3151 ATTACHES	160	AND 360/460
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AND LICENSED	SUPPORT	NATIVE	NATIVE	3101
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PROGRAM	SYSTEM	MODE (7)	MODE (8)	MODE
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Series/1(9) with

EDX	X	X	X
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TPS	X	X	X
-----	---	---	---

(EDX Version

only)

CF			X
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Store application environment		X	X	
System/88 with OS, TP, HLL 6150 with AIX 5170 with XENIX		X	X	X
9370 with ASCII subsystem controller and VM/SP, VSE/SP or IX/370 9370 with telecommunications subsystem controller and VM/SP or VSE/SP		X	X	X
4361 ICA with VM/SP or VSE/SP		X(10)	X(10)	X
SYSTEMS TO WHICH IBM 3151 ATTACHES AND LICENSED PROGRAM	SUPPORT SYSTEM	3151-110/ 160	3151-310/410 AND 360/460	3101 MODE
8100 with DPCX, DPPX		X(10)	X(10)	X(10)
3708	System/370, 30XX, 43XX, 9370 with MVS/SP, MVS/XA,			

	VSE/SP,			
	VM/SP,			
	VM/SP HPO	X	X	X
	System/36/38			
	with 3274			
	remote			
	attachment			
	support	X	X	X
	8100 with			
	DPPX/SP	X	X	X
	4700 via			
	4701/4702	X	X	X
7171	30XX, 43XX,			
	9370			
	with			
	MVS/SP,			
	MVS/XA			
	VM/SP,			
	VM/SP HPO	X	X	X
3174	System/370,			
asynchronous	30XX(11),			
emulation	43XX, 9370			
adapter	with MVS/SP,			
feature	MVS/XA	X	X	X
	VSE/SP,			
	VM/SP,			
	VM/SP HPO			
270X, 370X,	System/370,			
372X	30XX, 43XX			
with NTO	9370 with			
	MVS/SP,			
	MVS/XA			
	VSE/SP,			
	VM/SP,			
	VM/SP HPO	X(10)	X(10)	X(10)
IX/370	System/370,			
ASCII	30XX, 43XX,			
Control	9370 with			

Feature	IX/370			X
on Series/1				
YALE IUP	System/370,			
on Series/1	30XX, 43XX,			
or	9370 with			
HYAC on 4994	MVS/SP,			
or on	MVS/XA,			
Series/1	VSE/SP,			
	VM/SP,			
	VM/SP HPO			X
7426	System/370,			
	30XX, 43XX,			X
	8100			
ROLMbridge	System/36/38	X	X	
5208	System/36/38	X	X	

X Supported

(7) As an IBM 3161, with limitations

(8) As an IBM 3161

(9) Series/1 with multi-function attachment feature (1310), or with feature-programmable four-line Adapter feature (2096)

(10) CPT-TWX 33/35 (TTC2) protocol only.

(11) The channel attachment model of the 3174 is supported by 308X and 3090 only.

As an alternative to a modem attachment, the 3151 may be directly connected to a ROLM(12) CBX at speeds up to 19.2K bps through one of the following devices with RS232C (CCITT V.24/28) interface: ROLMphone Datacom Module (DCM), Data Terminal Interface (DTI), rack-mounted version of the DCM or DTI.

(12) Registered trademark of the ROLM Corporation.

SERIES/1 SUPPORT: Support of the 3151 is provided as follows:

ATTACHMENT FEATURE	RS232C	RS422A
Multifunction Attachment (1310)	X	X
Feature-Programmable 4-Line Adapter (2096)	X	

NOTE: The Cartridge to emulate IBM and DEC terminals is required for RS422A attachment.

PROGRAMMING	3101	NATIVE
PRODUCT SUPPORT	EMULATION	MODE

Event Driven Executive (EDX)		
Version 5.2	X	X
Event Driven Executive (EDX)		
Version 6.0	X	X
Transaction Processing System		
Version 1.2 *	X	X
Communication Facilities (CF)		
Version 2.1	X	
Store Application Environment		
Version 1, Release 3		X

* EDX Version only

Native mode and 3101 emulation programming support will be provided for the 3151 at the same functional level as currently provided for the 3161 in the above program products.

Support will be available August 1987 for 3101 emulation mode and December 1987, for native mode except for EDX Version 6.0 which will be available in the first quarter 1988.

The IBM 3151 attaches to a wide variety of IBM and non-IBM hosts via the main communications port. The IBM 3151 supports RS232C communications via a modem or direct attachment (maximum cable length of 40 feet). The IBM 3151 Cartridge for Emulating IBM and DEC Terminals provides the ability for IBM 3151 Models 310/410 and 360/460 to support RS422A communications for the emulations provided on that cartridge. The RS422A interface supports a point-to-point direct coupling with a maximum cable length of 4,000 feet.

The main communications port has a selectable transmission rate from 50 bps to 38,400 bps, inbound and outbound XON/XOFF pacing (inbound pacing is the default and not selectable), and echo/character/block modes, and supports seven- or eight-bit word length and no/odd/even/mark and space for parity.

The auxiliary port on the IBM 3151 Model 110/160 is a unidirectional RS232C port for attaching another asynchronous ASCII device such as an ASCII printer. On IBM 3151 Models 310/410 and 360/460 the auxiliary port is enhanced with a bidirectional data capability. This allows the attachment of output devices, such as a printer, as well as input devices, such as wands and ASCII terminals. Transmission rates from 50 bps to 19,200 bps are selectable independent of the main communications port speed settings.

MACHINE REQUIREMENTS: Users that require an RS422A Communications capability must use the IBM 3151 Cartridge for Emulating IBM and DEC Terminals which is available on IBM 3151 Models 310/410 and 360/460 only.

PROGRAMMING REQUIREMENTS: Applications that require one of the following capabilities will need the IBM 3151 Models 310/410 and 360/460:

- o IBM 3101-881 compatibility
- o Greater than 12 function keys
- o Program Access (PA) keys
- o Line drawing keys
- o Super/subscript keys
- o Split screen
- o 132 characters per line
- o Host access to the twenty-fifth (status) line.

Applications that require ANSI 3.64 compatibility should use one of the DEC VTXXX modes of the IBM 3151 Cartridge to Emulate IBM and DEC Terminals available for IBM 3151 Models 310/410 and 360/460.

INDEPENDENT SOFTWARE VENDORS: The following software vendors have informed IBM that they will support IBM 3151 models listed by the noted dates. IBM has not tested these programs for compatibility.

When available, the following programs will be supplied by the software vendors through their own marketing channels. Support, if any, will be provided by the vendors.

SOFTWARE		SYSTEMS		
PUBLISHER	PROGRAM*	SUPPORTED	SUPPORT	DATE
Alloy Computer Products, Inc.	PC-PLUS	G	A, B, C, D	6/87
CDI Information Systems	Pick Operating System	G, H	A, B, C	6/87
Computer Information Enterprises, Inc.	Hummingbird	F, G	A, B, C, D	6/87
Information Associates	Series Z	E, I	D	6/87
Informix Software Inc.	Informix-SQL, Informix-4GL	E, G, H, I	A, B, C, D	6/87

SOFTWARE PUBLISHER	PROGRAM*	SYSTEMS SUPPORTED	SUPPORT	DATE
Mid-American Control Corp.	Business Systems, Government and Education Systems and System Software	F	A,B	6/87
Quantum Software Systems Ltd.	QNX Operating System	G	A	6/87
Software Consulting Service, Inc.	SIDES	F	A,B	6/87
Software Link	PC-MOS/386	G	A,B	6/87
Thoroughbred Software	Thoroughbred/ OS	G, I	A, B, C, D	6/87
THEOS Software Corp.	Theos Operating System	G, I	A, B, C, D	6/87

NOTES

- A The IBM 3151 Model 110
- B The IBM 3151 Model 310/410 and 360/460
- C The IBM 3151 Model 310/410 and 360/460 with Wyse 50/50+ cartridge
- D The IBM 3151 Model 310/410 and 360/460 with IBM and DEC cartridge
- E System/370
- F Series/1
- G Personal Computer, IBM Personal System/2 (TM)
- H RT/PC
- I Non-IBM
- * These programs are trademarks or registered trademarks of the listed companies

(TM) Trademark of the International Business Machines Corporation.

COMPATIBILITY: IBM 3151 models generate an ASCII data stream that is compatible with the IBM 3161 and IBM 3162 ASCII Display Stations. The 3101 mode on IBM 3151 Models 310/410 and 360/460 will accept and generate IBM 3101 Model 881 data streams. There are some operational

differences in the screen management facilities and key nomenclature and key positions. The operator may receive new and different messages. The IBM 3151 ASCII Display Station Reference Manual (GA18-2634) documents these differences. It is recommended that current 3101 users refer to this manual for migration planning.

LIMITATIONS: The IBM 3151 Reference Manual describes specific limitations and enhancements to the data streams emulated within the base of each model. The User's Guide for Emulating the Wyse WY-50/50+ Terminals and the User's Guide for Emulating the IBM and DEC Terminals document specific limitations and enhancements to the emulations supported on their respective cartridges. These manuals should be referenced for migration and compatibility to the various displays.

PLANNING INFORMATION

Adequate site planning is the responsibility of the customer. The customer should have on hand, or should order the IBM 3151 ASCII Display Station Reference Manual (GA18-2634) for site planning and preparation work.

o Power:

- 120V AC, one-phase, three-wire, 60 Hz

o Line Cord:

- 2.8m (9.0 ft.) line cord with non-locking plug
- 1.8m (6.0 ft.) line cord (6952301) with non-locking plug is also available.

CUSTOMER RESPONSIBILITIES: The IBM 3151 ASCII Display Station is designated as a customer setup machine. The IBM 3151 ASCII Display Station Guide to Operations is shipped with each machine and describes the procedure for setting up the IBM 3151.

CABLE ORDERS: The IBM 3151 provides female main and auxiliary communications ports. Specific attachment cables are provided by many IBM systems for attachment to the host. For attachment to non-IBM hosts, refer to the IBM 3151 ASCII Display Station Reference Manual for a detailed description of the main and auxiliary communications ports pin layout. It is the customer's responsibility to provide cables for these systems. Cables are readily available from a cable vendor. In some cases, a user can adapt an existing cable with a female to male converter plug. A cable for the DEC VT220 (which has a male communications port) could be converted in

this manner by the user.

A modem cable (6343332) can be ordered as an accessory for attaching a modem or ASCII printer requiring RS232C communications.

An I/O cable (6343373) can be ordered as an accessory for attaching an IBM 4201 Proprinter or IBM 4202 Proprinter XL.

A multi-function attachment cable (8310553) can be ordered as an accessory for attaching the IBM 3151 to a host via the IBM Cabling System, with RS422A communications.

INSTALLABILITY: The IBM 3151 is a customer setup machine with a one-day allowance.

PROBLEM DETERMINATION: The IBM 3151 provides operator warning messages, operating status, and communications status on the twenty-fifth (status) line of the display. The IBM 3151 performs a number of diagnostics at power-up time. The IBM 3151 ASCII Display Station Guide to Operations, which is shipped with each IBM 3151, describes the messages and procedures to follow for problem determination.

PACKAGING: Each IBM 3151 is shipped in a single UPS-shippable container that includes a display with tilt mechanism, keyboard, power cord, blank keyboard overlay, and an IBM 3151 ASCII Display Station Guide to Operations Manual. If a cartridge feature has been ordered for the Models 310/410, a cartridge, User's Guide for the cartridge, keycaps and/or overlays are included.

ACCESSORIES AND SUPPLIES: An optional tilt/swivel pedestal is available as an accessory and can be used on all models of the IBM 3151. The IBM 3151 Models 310/410 102-key Enhanced Keyboard has recappable keys. Clear, light-blank and dark-blank keycaps, as well as removal tools and paper inserts are also available as accessories. Special keycaps for the emulation modes available in Models 310/410 and 360/460 can be ordered to enhance the usability when using these modes. Refer to the ACCESSORY CHARGES section for a list of these accessories and their charges and part numbers.

Accessories and supplies can be purchased from IBM's authorized distributors or from NDD's IBM Direct Response Operations (DRO). Call IBM DRO toll free at 800 IBM-2468. Mail orders should be sent to:

IBM Corporation

IBM Direct Response Operations

One Culver Road
Dayton, NJ 08810

SECURITY, AUDITABILITY, AND CONTROL

Data security is assisted via a non-display field control. User management is responsible for evaluation, selection and implementation of security features, administrative procedures and appropriate controls in application systems and communications facilities. For more information on data security controls, see Data Security Controls and Procedures (G320-5649).

TERMS AND CONDITIONS

VOLUME PURCHASE DISCOUNT: Yes. Volume purchasing is available under the Volume Procurement Amendment (VPA) to Agreement for Purchase of IBM Machines.

The IBM 3151 is included in Category A, Discount Group 3 of the Workstations and Related I/O VPA Exhibit (WKSX-1).

Customers with an existing VPA with a commitment in Category A of the Workstations VPA Exhibit (32WS-XX) may purchase the IBM 3151 until September 30, 1987, as additional quantities to, or as direct substitutes for, any other machines in the same category subject to availability. Customers who currently have an Information Display System VPA Exhibit (3270-XX) in effect with a commitment in Category I, may purchase the IBM 3151 either as additional quantities to, or as direct substitutes for, the other machines listed in Category I, subject to availability.

For further information regarding volume orders, contact your IBM marketing representative.

IBM CREDIT CORPORATION FINANCING: Term leases and installment payment plans are available.

CUSTOMER FULFILLMENT OPTION APPLIES: Yes

ELIGIBLE MACHINE UNDER ALTERNATIVE CERTIFICATION FOR IBM MACHINES:

No

WARRANTY PERIOD: One or three years.

WARRANTY: Customer Carry-in Exchange (CCE)

WARRANTY OPTIONS: IBM On-site Exchange (IOE)

IBM MAINTENANCE AGREEMENT: IOE

MACHINE GROUP: A

IBM HOURLY SERVICE RATE CLASSIFICATION: 1

IBM Warranty Service, Maintenance Service or IBM Hourly Service may be obtained by calling the IBM Service/Exchange Communications Center toll free at 800 428-2569.

CORPORATE SERVICE AGREEMENT: Yes

The IBM 3151 is an eligible machine for the Corporate Service Amendment to the IBM Maintenance Agreement.

PRODUCT AVAILABILITY STATUS: New product available.

CUSTOMER SETUP: Yes. CSU allowance is one day. IBM setup is available at the applicable IBM hourly service rates and minimum charges.

PRE-INSTALLATION TEST ALLOWANCE: None

ON-SITE ALLOWANCE: None

EDUCATIONAL ALLOWANCE: A 20% educational allowance is available to qualifying institutions in accordance with the Educational Allowance Amendment. The educational allowance may not be added to any other discount or allowance.

CHARGES

MACHINE TYPE	MODEL/ FEATURE NUMBER	PURCHASE PRICE
3151	110	\$429
	310	555
	410	555
	160	399
	360	525
	460	525

CARTRIDGES FOR IBM 3151 MODELS 310/410/360/460:

FEATURE	DESCRIPTION	CHARGE
8505	Cartridge to emulate Wyse WY-50/50+ terminals	\$25
8235	Cartridge to emulate IBM and DEC terminals	50

NOTE: For IBM 3151 ASCII Display Stations installed in Chicago, specify a no-charge feature number 9986 for a 6-foot power cord (6952301) available at no charge only at initial order.

MINIMUM WARRANTY OPTION CHARGES: IOE

- o Feature Number 9876: \$10 (Models 160, 360, 460)
\$30 (Models 110, 310, 410)

ANNUAL MINIMUM MAINTENANCE CHARGES: IOE -- \$27

CORPORATE SERVICE AGREEMENT:

DISCOUNT PERCENTAGE

	ONE	THREE	FIVE
OPTION	YEAR	YEARS	YEARS
Network	15%	25%	30%

MACHINE ELEMENT CHARGES:

DESCRIPTION	PART NUMBER	PRICE
Video (Green) Model 110/160 (Includes Power Cord 6952300)	81X4508	\$295
Video (Green) Model 310/360 (Includes Power Cord 6952300)	81X4509	375
Video (Amber) Model 410/460 (Includes Power Cord 6952300)	81X4519	375
84-key Keyboard	1392980	104
102-key Keyboard	1392595	150
Power Cord -- 2.8M (9.0 foot)	6952300	10
Power Cord -- 1.8M (6.0 foot)	6952301	10
Cartridge -- Wyse 50/50+ Emulation	81X4456	25
Cartridge -- IBM and DEC Emulation	81X4457	50

ACCESSORY CHARGES:

DESCRIPTION	PART NUMBER	PRICE
Tilt/Swivel Stand	81X4450	\$20
Clear Lens Keycaps/Paper Inserts/Removal Tool	6341707	50
Blank Keycaps (Light) and Removal Tool	1351710	25
Blank Keycaps (Dark) and Removal Tool	1351728	25
Keycap Removal Tools (6 tools)	1351717	11

Paper Inserts (150 Light and 150 Gray)	6341704	30
Modem Cable-inch screws	6343332	66
I/O Cable	6343373	66
Multi-function Attachment cable	8310553	76
Power Cord (1.8m/6.0 ft.)	6952301	10
10 ASCII Emulations Keycaps	1392098	10
Wyse WY-50/50+ Emulation Keycaps	1392508	10
Wyse WY-50/50+ Emulation Cartridge	81X4456	25
DEC VT220/100/52 Keycaps/ Cartridge	81X4457	50

---NOTICE TO CUSTOMERS---NOTICE TO CUSTOMERS---

June 16, 1987

VOLUME PROCUREMENT AMENDMENT FOR IBM WORKSTATIONS REVISED

Today, IBM announces the new IBM 3151 ASCII Display Station. A new Exhibit is used with your Volume Procurement Amendment (VPA) for IBM Workstations and Related I/O. The IBM 3151 is included in Category A, Discount Group 3 of the new Exhibit (WKSX-1) effective immediately.

The VPA Exhibit (WKSX-1) should be used for new commitments for IBM 3151s. Customers with an existing Workstations VPA (32WS-XX) may order the IBM 3151 ASCII Display Station, either as additional quantities to, or as direct substitutes for, the other machines listed in Category A, subject to availability, provided the 3151s are ordered and installed no later than September 30, 1987.

Customers who currently have an Information Display System VPA Exhibit (3270-XX) in effect with a commitment in Category I, may purchase the IBM 3151 either as additional quantities to, or as direct substitutes for, the other machines listed in Category I, subject to availability.

If sufficient additional quantities are ordered to qualify for a greater discount, a Supplement for Additional Quantities must be signed, and all machines shipped on and after the date it is received by IBM and prior to expiration of the contract period, will receive the greater discount. If you have any questions regarding this notification, please contact your IBM marketing representative.

In the Publications section, the order number GA18-2593 has been corrected to GA18-2657 in two places.

In the Charges section of this announcement, under the heading Minimum Warranty Option Charges, the second feature number for Models 110, 310, and 410 has been deleted.

The wording of the second paragraph in the Notice to IBM Customers has been changed as follows: "...may order the IBM 3151 ASCII Display Station, either as additional quantities to, or as direct substitutes for, the other machines listed in Category A, subject to availability, provided the 3151s are ordered and installed no later than September 30, 1987."

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