2116B COMPUTER PRICE LIST

2116B COMPUTER $24,000
Includes 8192-word memory. Operates on 115V/230V, 50 to 60 Hz supplies

PROCESSOR OPTIONS

16,384-Word Memory	Option 005	11,000
(Adds 8K to basic 8K memory)		
230-Volt Operation	Option 015	N/C
Direct Memory Access	12578A	3,000
Extended Arithmetic Unit	12579A	3,000
Memory Protect	12581A	2,000
Power Fail Interrupt	12588A	1,500
(with automatic restart)		
Memory Parity Check with Interrupt	12591A	1,000
Field Installation of 16,384-Word Memory* . . .	12592A-001	11,000

*Field installation of the 16K memory must be performed by an HP Field Service Engineer. There is no additional charge for this requirement.

I/O AND MEMORY EXTENSION

2151A I/O EXTENDER . . . . $ 3,500

Operates on 115V, 50 to 60 Hz supplies. Extender provides power supplies and prewired slots for 16 additional I/O channels.

230-Volt Operation	Option 015	100
Interface Kit	12596A	1,500
Interfaces the 2151A I/O Extender with the 2116B Computer for a total of 32 I/O channels.		

2150B I/O AND MEMORY EXTENDER . . . . $ 9,000
Cabinet provides power supplies and prewired slots for 32 additional I/O channels plus space for two additional 8K memory modules. The desired I/O and/or memory extension is specified by selecting one or more of the options shown below.

I/O Extension	Option 001	3,000
Adds 32 I/O channels to 16 channels in 2116B for a total of 48 I/O channels		
Memory Extension	Option 002	14,000
Adds first 8K of memory to the 2150B Extender for a total of 24K of memory in the mainframe and extender		
Memory Extension	Option 003	11,000
Adds second 8K of memory to the 2150B Extender for a total of 32K of memory in the mainframe and extender		
230-Volt Operation	Option 015	N/C

■ ORDERING INFORMATION

Interface Kits for the following I/O options include software, consisting of I/O Driver and Diagnostic tapes. I/O Driver tapes are not included with Interface Kits 12551B, 12554A, 12555A, 12557A, 12566A, 12587A, 12589A, 12597A, 12606B, 12618A, 12621A, and 12622A. Orders for I/O options subsequent to original purchase of system must state computer model, serial number and operating system, so that proper software is furnished.

● Prices for the following options include Interface Kit and Peripheral. When ordering, specify both Interface Kit and Peripheral-Device numbers.

For Example: To order Teleprinter Input/Output, specify Interface Kit 12531B and the HP 2752A Teleprinter.

I/O OPTION	CAPABILITY	INTERFACE KIT	PERIPHERAL	PRICE	
				115V,60Hz	230V,50Hz
Teleprinters					
TELEPRINTER INPUT/OUTPUT	Typewriter and paper tape output, keyboard and paper tape input, at 10 characters/second. ASCII code; friction-feed platen.	12531B	HP 2752A Teleprinter (modified Teletype ASR-33)	2,000	2,200
HEAVY DUTY TELEPRINTER INPUT/OUTPUT	Similar to option above, except heavy-duty teleprinter with pin-feed platen. Recommended where use exceeds 5 hrs/day or 30 hrs/week.	12531B	HP 2754B Teleprinter (modified Teletype ASR-35)	4,600	5,000
Readers and Punches					
HIGH-SPEED PUNCHED TAPE INPUT	Paper tape input at 500 characters/sec	12597A-002	HP 2748A Punched Tape Reader	2,100	2,200
HIGH-SPEED PUNCHED TAPE READER REROLLER	Reads and rerolls paper tape at 500 characters/sec.	12597A-002	HP 2758A Tape Reader Reroller	3,600	3,700
HIGH-SPEED PUNCHED TAPE OUTPUT	Punched tape output at 120 characters/sec.	12597A-003	HP 2753A Tape Punch	4,100	4,150
PAPER TAPE WINDER	Hand-held electric winder for rerolling paper tape.	———	HP 12575A Tape Winder	50	———
OPTICAL MARK READER	Reads punched and marked cards. 200 cards/min; automatic feed.	12602A	HP 2761A-007 Optical Mark Reader (parallel output)	3,700	3,850
HIGH-SPEED CARD READER INPUT	Reads punched cards. 1000 cards/min; automatic feed.	12558B	HP 2779B Card Reader	8,000	8,100
7-CHANNEL MAGNETIC TAPE INPUT/OUTPUT	Records and reads IBM-compatible 1/2-inch 7-channel NRZI tape. 200 and 556 bpi (switch selectable, 30 ips.	12538B*	HP (H27) 2020B Magnetic Tape Unit	13,895	14,095
Magnetic Tape					
9-CHANNEL MAGNETIC TAPE	A. Records and reads from IBM compatible 1/2-inch 9-channel tape. 800 bpi, 25 ips.	13181A-001*	HP 7970A-200 Magnetic Tape Unit	9,500	9,500
	B. Additional 9-Channel Magnetic Tape Unit (maximum of four units per interface).	———	HP 7970A-200 Magnetic Tape Unit (with 13190A Multi-unit cable)	5,075	5,075
	C. Same as A except 37.5 ips.	13181A	HP 7970A-200 Magnetic Tape Unit	9,700	9,700
	D. Additional 9-Channel Magnetic Tape Unit (maximum of four units per interface).	———	HP 7970A-202 Magnetic Tape Transport (with 13190A multi-unit cable)	5,275	5,275
	E. Records and reads, IBM-compatible 1/2-inch 9-channel tape. Bit density 800 bpi. Speed 75 ips.	12559A*	HP (H01) 3030G Magnetic Tape Unit	18,500	18,700
Disc Memories					
CARTRIDGE DISC MEMORY (1247K WORDS)	A. Provides storage for 1,247,232 16-bit words in 128 word sectors, 12 sectors/track. One fixed disc and one removable disc served by the same moving head. Access time (including head settling): Track-to-track 30 ms; avg. random move 70 ms, max - 85 ms; avg. rotation delay 20 ms.	12557A*	HP 2870A Moving Head Disc with HP 2871A Disc Controller, HP 2881 Power Supply, HP 2882A Cabinet	16,000	16,150
	B. Additional Moving Head Disc Drive. Installed in same cabinet with A above to expand total storage capacity to 2,494,464 words.	———	HP 2870A-001 Moving Head Disc Drive	8,700	8,750
	C. Additional Disc Drives (up to 4 drives can be handled by one controller and interface. However, 3rd and 4th drives require a second cabinet and Power Supply).	———	HP 2870A-001 Moving Head Disc Drive HP 2881 Power Supply HP 2882A Cabinet	8,700 1,400 600	8,750 1,500 600
	D. Additional Disc Cartridge	———	HP 12563A Cartridge	110	110
DISC MEMORY (184K WORDS)	Provides storage for 184,320 16-bit words in 64 word sectors, 90 sectors/track. Transfer rate: 160K words/sec. Access time: 17.4 ms average.	12606B*	HP 2770A Disc Memory with HP 2772A Disc Memory Power Supply	23,500	23,900
DISC MEMORY (368K WORDS)	Similar to above but stores 368,640 words.	12606B*	HP 2770A-001 Disc Memory with HP 2772A Disc Memory Power Supply	28,500	28,900
DISC MEMORY (368K WORDS)	Similar to above but stores 368,640 words.	12606B*	HP 2771A Disc Memory with HP 2772A Disc Memory Power Supply	30,000	30,400
DISC MEMORY (737K WORDS)	Similar to above but stores 737,280 words.	12606B	HP 2771A-001 Disc Memory with HP 2772A Disc Memory Power Supply	36,500	36,900

*Uses 2 I/O slots

I/O OPTION	CAPABILITY	INTERFACE KIT	PERIPHERAL	PRICE 115V,60Hz	PRICE 230V,50Hz
	Line Printers				
LINE PRINTER (80 COLUMNS/LINE)	Prints data at 300 to 1100 lines/min, 80 columns/line. ASCII character set.	12563A	HP 2767A Line Printer	12,500	12,600
LINE PRINTER (120 COLUMNS/LINE)	Prints data at 300 lines/min, 120 columns/ line. ASCII character set.	12617A	HP 2778A Line Printer	23,000	23,200
LINE PRINTER (132 COLUMNS/LINE)	Prints data at 300 lines/min, 132 columns/ line. ASCII character set.	12617A	HP 2778A-001 Line Printer	24,000	24,200
	Auxiliary Power				
POWER SUPPLY EXTENDER	Supplements internal I/O power supply	----	HP 2160A Power Supply Extender	2,000	2,000
	Console/Terminals				
CRT KEYBOARD	Permits keyboard entry. Visually displays input/output data. Transfers data at 10 to 218 char/sec.	12880A	HP 2600 CRT Keyboard Terminal	6,250	6,500

● Prices for the following options are for the Interface Kit only; order by Interface Kit number. For Example: To order the Relay Output Register, specify Interface Kit 12551B.

NAME	CAPABILITY	BASIC KIT NO.	PERIPHERAL	PRICE
TIME BASE GENERATOR	Generates real-time intervals in decade steps from 100μ s to 1000 sec (derived from crystal oscillator). Used as source of timed interrupts for software clock.	12539A	None required	1,250
DATAPHONE INTERFACE	A. Provides interface to asynchronous data-phone communicators.	12587A	Data modem Determined by user	2,000
	B. Performs automatic dialing for data-phone communications.	12589A	Bell System 801 Automatic calling unit	1,500
	C. Provides interface for synchronous send and receive data transmission.	12618A	Data modem determined by user	3,000
	D. Provides interface for synchronous data reception only.	12621A	Data modem determined by user	2,000
	E. Provides interface for synchronous data transmission only.	12622A	Data modem determined by user	2,000
RELAY OUTPUT REGISTER	Provides 16 form-A contacts for operating external devices. (Interface kit includes 48-pin mating connector.)	12551B	Determined by user	750
16-BIT GENERAL PURPOSE DUPLEX REGISTER	Dual 16-bit flip-flop register. Permits bi-directional transfer of information between computer and external devices. (Interface kit includes 48-pin mating connector.)	12554A	Determined by user	900
D-A CONVERTER	Provides two D-A conversion channels, 8 bits/channel.	12555A	Determined by user	1,000
MICROCIRCUIT INTERFACE	Dual 16-bit flip-flop register. Permits bi-directional data transfer between computer and external device at DTL/TTL voltage levels. (Interface kit includes cable and mating connector.)	12566A	Determined by user	900
8-BIT GENERAL PURPOSE DUPLEX REGISTER	Dual 8-bit flip-flop register. Permits bi-directional transfer of information between computer and external devices. (Interface kit includes 48-pin mating connector.)	12597A	Determined by user	600
DIGITAL PLOTTER INTERFACE	Provides interface for digital plotter.	12560A	Cal Comp 563 or 565	2,500

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