# 2116B Computer Price List

## 2116B Computer

<table>
<thead>
<tr>
<th>Component</th>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes 8192-word memory. Operates on 115V/230V, 50 to 60 Hz supplies.</td>
<td></td>
<td>$24,000</td>
</tr>
</tbody>
</table>

### Processor Options

<table>
<thead>
<tr>
<th>Component</th>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>16,384-Word Memory (Adds 8K to basic 8K memory)</td>
<td>Option 005</td>
<td>$11,000</td>
</tr>
<tr>
<td>230-Volt Operation</td>
<td>Option 015</td>
<td>N/C</td>
</tr>
<tr>
<td>Direct Memory Access</td>
<td>12578A</td>
<td>$3,000</td>
</tr>
<tr>
<td>Extended Arithmetic Unit</td>
<td>12579A</td>
<td>$3,000</td>
</tr>
<tr>
<td>Memory Protect</td>
<td>12581A</td>
<td>$2,000</td>
</tr>
<tr>
<td>Power Fail Interrupt</td>
<td>12588A</td>
<td>$1,500</td>
</tr>
<tr>
<td>Memory Parity Check with Interrupt</td>
<td>12591A</td>
<td>$1,000</td>
</tr>
<tr>
<td>Field Installation of 16,384-Word Memory*</td>
<td>12592A-001</td>
<td>$11,000</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Component</th>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating on 115V, 50 to 60 Hz supplies. Extender provides power supplies and prewired slots for 16 additional I/O channels.</td>
<td></td>
<td>$3,500</td>
</tr>
<tr>
<td>230-Volt Operation</td>
<td>Option 015</td>
<td>$100</td>
</tr>
<tr>
<td>Interface Kit</td>
<td>12596A</td>
<td>$1,500</td>
</tr>
</tbody>
</table>

Interfaces the 2151A I/O Extender with the 2116B Computer for a total of 32 I/O channels.

### 2150B I/O and Memory Extender

<table>
<thead>
<tr>
<th>Component</th>
<th>Option</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
<td>$9,000</td>
</tr>
<tr>
<td>I/O Extension</td>
<td>Option 001</td>
<td>$3,000</td>
</tr>
<tr>
<td>Adds 32 I/O channels to 16 channels in 2116B for a total of 48 I/O channels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory Extension</td>
<td>Option 002</td>
<td>$14,000</td>
</tr>
<tr>
<td>Adds first 8K of memory to the 2150B Extender for a total of 24K of memory in the mainframe and extender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory Extension</td>
<td>Option 003</td>
<td>$11,000</td>
</tr>
<tr>
<td>Adds second 8K of memory to the 2150B Extender for a total of 32K of memory in the mainframe and extender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>230-Volt Operation</td>
<td>Option 015</td>
<td>N/C</td>
</tr>
</tbody>
</table>

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HEWLETT-PACKARD, CUPERTINO DIVISION 11000 Wolfe Road, Cupertino, California 95014 Area Code 408 257-7000 TWX 910-338-0221
## 2116B Input/Output Options

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.

### Ordering Information

- 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.

<table>
<thead>
<tr>
<th>I/O Option</th>
<th>Capability</th>
<th>Interface Kit</th>
<th>Peripheral</th>
<th>Price 115V,60Hz</th>
<th>Price 230V,50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9-Channel Magnetic Tape</strong></td>
<td><strong>Input/Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Records and reads from IBM compatible 1/2-inch 9-channel tape. 800 bpi, 25 ips.</td>
<td>13181A-001 *</td>
<td>HP 7970A-200 Magnetic Tape Unit</td>
<td>9,500</td>
<td>9,500</td>
<td></td>
</tr>
<tr>
<td>B. Additional 9-Channel Magnetic Tape Unit (maximum of four units per interface).</td>
<td>13181A-001</td>
<td>HP 7970A-200 Magnetic Tape Unit (with 13190A multi-unit cable)</td>
<td>5,075</td>
<td>5,075</td>
<td></td>
</tr>
<tr>
<td>C. Same as A except 37.5 ips.</td>
<td>13181A</td>
<td>HP 7970A-200 Magnetic Tape Unit</td>
<td>9,700</td>
<td>9,700</td>
<td></td>
</tr>
<tr>
<td>D. Additional 9-Channel Magnetic Tape Unit (maximum of four units per interface).</td>
<td>13181A-001</td>
<td>HP 7970A-202 Magnetic Tape Unit (with 13190A multi-unit cable)</td>
<td>5,275</td>
<td>5,275</td>
<td></td>
</tr>
<tr>
<td>E. Records and reads, IBM-compatible 1/2-inch 9-channel tape. Bit density 800 bpi. Speed 75 ips.</td>
<td>12559A *</td>
<td>HP (H01) 3030G Magnetic Tape Unit</td>
<td>18,500</td>
<td>18,700</td>
<td></td>
</tr>
<tr>
<td><strong>9-Channel Magnetic Tape</strong></td>
<td><strong>Input/Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Records and reads from IBM compatible 1/2-inch 9-channel tape. 800 bpi, 25 ips.</td>
<td>13181A-001 *</td>
<td>HP 7970A-200 Magnetic Tape Unit</td>
<td>9,500</td>
<td>9,500</td>
<td></td>
</tr>
<tr>
<td>B. Additional 9-Channel Magnetic Tape Unit (maximum of four units per interface).</td>
<td>13181A-001</td>
<td>HP 7970A-200 Magnetic Tape Unit (with 13190A multi-unit cable)</td>
<td>5,075</td>
<td>5,075</td>
<td></td>
</tr>
<tr>
<td>C. Same as A except 37.5 ips.</td>
<td>13181A</td>
<td>HP 7970A-200 Magnetic Tape Unit</td>
<td>9,700</td>
<td>9,700</td>
<td></td>
</tr>
<tr>
<td><strong>Disc Memories</strong></td>
<td><strong>(1247K Words)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Provides storage for 1,241,232 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.</td>
<td>12557A *</td>
<td>HP 2870A-001 Moving Head Disc Drive</td>
<td>8,700</td>
<td>8,750</td>
<td></td>
</tr>
<tr>
<td>B. Additional Moving Head Disc Drive. Installed in same cabinet with A above to expand total storage capacity to 2,494,464 words.</td>
<td>12557A *</td>
<td>HP 2870A-001 Moving Head Disc Drive</td>
<td>8,700</td>
<td>8,750</td>
<td></td>
</tr>
<tr>
<td>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!):</td>
<td>12557A *</td>
<td>HP 2870A-001 Moving Head Disc Drive</td>
<td>1,400</td>
<td>1,500</td>
<td></td>
</tr>
<tr>
<td><strong>Disc Memory</strong></td>
<td><strong>(184K Words)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. 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.</td>
<td>12608B *</td>
<td>HP 2770A-001 Disc Memory with HP 2772A Disc Memory Power Supply</td>
<td>23,500</td>
<td>23,900</td>
<td></td>
</tr>
<tr>
<td>B. Similar to above but stores 368,640 words.</td>
<td>12608B *</td>
<td>HP 2770A-001 Disc Memory with HP 2772A Disc Memory Power Supply</td>
<td>28,500</td>
<td>28,900</td>
<td></td>
</tr>
<tr>
<td><strong>Disc Memory</strong></td>
<td><strong>(368K Words)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Provides storage for 368,640 words.</td>
<td>12608B *</td>
<td>HP 2771A-001 Disc Memory with HP 2772A Disc Memory Power Supply</td>
<td>30,000</td>
<td>30,400</td>
<td></td>
</tr>
<tr>
<td>B. Similar to above but stores 368,640 words.</td>
<td>12608B *</td>
<td>HP 2771A-001 Disc Memory with HP 2772A Disc Memory Power Supply</td>
<td>36,500</td>
<td>36,900</td>
<td></td>
</tr>
<tr>
<td><strong>Disc Memory</strong></td>
<td><strong>(737K Words)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Provides storage for 737,280 words.</td>
<td>12608B *</td>
<td>HP 2771A-001 Disc Memory with HP 2772A Disc Memory Power Supply</td>
<td>28,500</td>
<td>28,900</td>
<td></td>
</tr>
<tr>
<td>B. Similar to above but stores 368,640 words.</td>
<td>12608B *</td>
<td>HP 2771A-001 Disc Memory with HP 2772A Disc Memory Power Supply</td>
<td>30,000</td>
<td>30,400</td>
<td></td>
</tr>
</tbody>
</table>

* Uses 2 I/O slots
<table>
<thead>
<tr>
<th>I/O OPTION</th>
<th>CAPABILITY</th>
<th>INTERFACE KIT</th>
<th>PERIPHERAL</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINE PRINTER</td>
<td>Prints data at 300 to 1100 lines/min, 80 columns/line, ASCII character set.</td>
<td>1263A</td>
<td>HP 2767A Line Printer</td>
<td>12,500</td>
</tr>
<tr>
<td>(80 COLUMNS/LINE)</td>
<td></td>
<td></td>
<td></td>
<td>12,600</td>
</tr>
<tr>
<td>LINE PRINTER</td>
<td>Prints data at 300 lines/min, 120 columns/line, ASCII character set.</td>
<td>12617A</td>
<td>HP 2778A Line Printer</td>
<td>23,000</td>
</tr>
<tr>
<td>(120 COLUMNS/LINE)</td>
<td></td>
<td></td>
<td></td>
<td>23,200</td>
</tr>
<tr>
<td>LINE PRINTER</td>
<td>Prints data at 300 lines/min, 132 columns/line, ASCII character set.</td>
<td>12617A</td>
<td>HP 2778A-001 Line Printer</td>
<td>24,000</td>
</tr>
<tr>
<td>(132 COLUMNS/LINE)</td>
<td></td>
<td></td>
<td></td>
<td>24,200</td>
</tr>
<tr>
<td>POWER SUPPLY EXTENDER</td>
<td>Supplements internal I/O power supply</td>
<td></td>
<td>HP 2160A Power Supply Extender</td>
<td>2,000</td>
</tr>
<tr>
<td>CRT KEYBOARD</td>
<td>Permits keyboard entry, Visually displays input/output data, Transfers data at 10 to 218 char/sec.</td>
<td>12880A</td>
<td>HP 2600 CRT Keyboard Terminal</td>
<td>6,250</td>
</tr>
</tbody>
</table>

- 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 125518.

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