# NOVA
# SUPER NOVA
# PRICE LIST

Prices quoted are effective October 6, 1970, FOB Southboro, Massachusetts, and apply in continental United States only. Federal, state or local taxes are not included. Option prices are for factory installation; field installation prices will be quoted upon request. All prices are subject to change without notice.

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| **NOVA 1200 CENTRAL PROCESSOR AND OPTIONS** | | | |
| 8101 | Nova 1200 central processor with six additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply. Slide mountable in a 19" rack. Chassis is 5¼" high (50/60 Hz, 117 VAC) For operation at 230 VAC, order 8101-2. Without console, reduce price by $300. | | $2,400 |
| 8102 | Nova 1200 central processor with 16 additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock power supplies. Slide mountable in a 19" rack. Chassis 10½" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8102-2. | | 3,250 |
| 8105 | Nova 1200 central processor with six additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply. Table top cabinet. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8105-2. Without console, reduce price by $300. | | 2,400 |
| 8106 | Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored. | 8101,2, or 5 | 400 |
| 8107 | Nova 1200 multiply/divide. Multiplies two 16-bit numbers to produce a 32-bit product. Divides a 32-bit dividend by a 16-bit divisor to produce a quotient and a remainder. Occupies one subassembly slot. | 8101, 2, or 5 | 1,600 |
| 8108 | Automatic program load. | 8101, 2, or 5 | 400 |
| 8122 | External I/O cable connector. Brings I/O interface connections from the internal I/O bus to an external 50-pin connector. | 8101, 2, or 5 | 250 |
| 8124 | Nova 1200 expansion chassis. Adds 7 additional subassembly slots, and 5-volt, 12-amp power supply. Chassis 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8124-2. | 8101, 2, or 5 | 1,850 |
| **NOVA 1200 MEMORIES** | | | |
| 8103 | 4096 16-bit word (8192 bytes) core memory, 1.2 microsecond cycle time. Occupies one subassembly slot. | 8101, 2, or 5 | 2,700 |
| 8104 | 2048 16-bit word (4096 bytes) core memory, 1.2 microsecond cycle time. Occupies one subassembly slot. | 8101, 2, or 5 | 2,200 |
| **NOVA 800 CENTRAL PROCESSOR AND OPTIONS** | | | |
| 8201 | Nova 800 central processor with five additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply. Slide mountable in a 19" rack. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8201-2. Without console, reduce price by $300. | | 3,600 |
| 8202 | Nova 800 central processor with 15 additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supplies. Slide mountable in a 19" rack. Chassis is 10½" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 4001-2. | | $4,450 |
| 8205 | Nova 800 central processor with five additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply. Table top cabinet. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8205-2 Without console, reduce price by $300. | | 3,600 |
| 8206 | Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored. | 8201, 2, or 5 | 400 |
| 8207 | Nova 800 multiply/divide. Multiplies two 16-bit numbers to produce a 32-bit product. Divides a 32-bit dividend by a 16-bit divisor to produce a quotient and a remainder. | 8201, 2, or 5 | 1,000 |
| 8208 | Automatic program load. | 8201, 2, or 5 | 400 |
| 8222 | External I/O cable connector. Brings I/O interface connections from the internal I/O bus to an external 50-pin connector. | 8201, 2, or 5 | 250 |
| 8224 | Nova 800 expansion chassis. Adds 7 additional subassembly slots, and 5-volt, 12-amp power supply. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8224-2. | 8201, 2, or 5 | 1,850 |
| **NOVA 800 MEMORIES** | | | |
| 8203 | 4096 16-bit word (8192 bytes) core memory. 800 nanosecond cycle time. Occupies one subassembly slot. | 8201, 2, or 5 | 3,000 |
| 8204 | 2048 16-bit word (4096 bytes) core memory. 800 nanosecond cycle time. Occupies one subassembly slot. | 8201, 2, or 5 | 2,500 |
| **NOVA CENTRAL PROCESSOR AND OPTIONS** | | | |
| 4001 | Nova central processor with four accumulators (hardware). Input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply, five additional subassembly slots, slide mountable in a 19" rack. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 4001-2. | | 3,950 |
| 4006 | Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored. | 4001 | 400 |
| 4022 | External I/O cable connector. Brings I/O interface connections from the internal I/O bus to an external 50-pin connector. | 4001 | 250 |
| 4024 | Nova expansion chassis. Adds 7 additional subassembly slots, and 5-volt, 12-amp power supply. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 4024-2. | 4001 | 1,850 |

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| 4031 | Nova multiply/divide. Contains three 16-bit registers that are loaded and read with I/O instructions. Multiplies two 16-bit numbers to form a 32-bit product. Divides a 32-bit dividend by 16-bit divisor to produce a quotient and a remainder. Occupies one subassembly slot. | 4001 | $ 2,000 |
| **NOVA MEMORIES** | | | |
| 4003 | 4096 16-bit word (8192 bytes) core memory. Occupies one subassembly slot. | 4001 | 3,650 |
| 4004 | 2048 16-bit word (4096 bytes) core memory. Occupies one subassembly slot. | 4001 | 2,700 |
| 4005 | 1024 16-bit word (2048 bytes) read-only memory, wired to customer specifications. Occupies one subassembly slot. | 4001 | 1,600 |
| **SUPERNOVA CENTRAL PROCESSOR AND OPTIONS** | | | |
| 8001 | Supernova central processor with automatic program load, four accumulators (hardware) input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply, four additional subassembly slots, mountable in a 19" rack with slides. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8001-2. | | 5,600 |
| 8006 | Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored. | 8001 | 400 |
| 8007 | Supernova multiply/divide. Multiplies two 16-bit numbers to produce a 32-bit product. Divides a 32-bit dividend by a 16-bit divisor to produce a quotient and a remainder. | 8001 | 1,600 |
| 8008 | Memory allocation and protection option. Provides instruction protection, memory protection. Occupies one subassembly slot. | 8001 | 3,500 |
| 8009 | Optional high-speed data channel. Uses the same interface as the standard data channel. Allows I/O device/memory transfers at up to 1.25 million 16-bit words/second for input and 1.0 million 16-bit words/second for output, add-to-memory, and increment. Interference for a single transfer is generally 800 nanoseconds. Maximum latency time is 4.2 microseconds. Occupies one subassembly slot. | 8001 | 950 |
| 8022 | External I/O cable connector. Brings I/O interface connections from internal I/O bus to external 50-pin connector. | 8001 | 250 |
| 8024 | Supernova expansion chassis. Adds 7 additional subassembly slots and 5-volt, 12-amp power supply, 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8024-2. | 8001 | 1,850 |
| **SUPERNOVA MEMORIES** | | | |
| 8003 | 4096 16-bit word (8192 bytes) core memory. 800 nanosecond cycle time. Occupies one subassembly slot. | 8001 | 3,650 |
| **SUPERNOVA SC MEMORIES** | | | |
| 8010 | 4096 16-bit word (8192 bytes) monolithic memory. 300 nanosecond cycle time. Occupies one subassembly slot. | 8001 | $ 5,950 |
| 8011 | 2048 16-bit word (4096 bytes) monolithic memory. 300 nanosecond cycle time. Occupies one subassembly slot. | 8001 | 3,650 |
| 8012 | 1024 16-bit word (2048 bytes) monolithic memory. 300 nanosecond cycle time. Occupies one subassembly slot. | 8001 | 2,800 |
| **CLOCKS, TELETYPE, PAPER TAPE, CARD READER, PLOTTER, AND PRINTER I/O** | | | |
| 4007 | I/O interface subassembly for interface Types 4008, 4010, 4011, and 4012. Occupies one subassembly slot. | Any central processor | 200 |
| 4008 | Real-time clock. Four frequencies selectable under program control: line frequency, 10Hz, 100Hz, or 1000Hz. Provides a program interrupt for programming a time-of-day clock or an interval timer. Clock source is AC line or crystal controlled oscillator. | 4007 | 400 |
| 4009 | Teletype modification kit. Converts Models ASR 33TZ, TC or TU to on-line operation for use with 4010 control. | | 100 |
| 4010 | Teletype I/O interface for Models 33ASR, 33KSR, 35ASR and 35KSR. | 4007 | 150 |
| The Teletype models listed below are for 60 Hz, 117 VAC operation. For operation at 50 Hz, 117 VAC, order with type number suffix 1 (e.g., 4010A-1). For operation at 50 Hz, 230 VAC, order with type number suffix 2 (e.g., 4010A-2) and add $50 to price. | | | |
| 4010A | Teletype Model 33ASR 10 cps keyboard/printer; 10 cps 8-channel paper tape reader/punch. | 4010 | 1,250 |
| 4010B | Teletype Model 33KSR 10 cps keyboard/printer. | 4010 | 975 |
| 4010C | Teletype Model 35KSR 10 cps heavy duty keyboard/printer (P.D. 102). | 4010 | 2,525 |
| 4010E | Teletype Model 33ASR (TDT) 10 cps keyboard printer; 10 cps 8-channel paper tape reader/punch with reader control (may also be used as 4010A). | 4050 or 4010 | 1,400 |
| 4011 | Paper tape reader control for Type 4011B reader. | 4007 | 850 |
| 4011B | High-speed paper tape reader, 300 cps, fan fold, 8-channel tape, rack-mountable (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4011B-1 ($1,950). For operation at 50 Hz, 230 VAC, order 4011B-2 ($1,950). | 4011 | 1,800 |
| 4012 | Paper tape punch control for Type 4012A paper tape punch. | 4007 | 700 |
| 4012A | High-speed paper tape punch, 63.3 cps (Teletype BRPE 11) for fan-fold, 8-channel paper tape, slide-mountable in a 19" rack. Chassis is 14" high (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4012A-1 ($1,550). For operation at 50 Hz, 230 VAC, order 4012A-2 ($1,575). | 4012 | 1,500 |

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| 4013 | Remote-operation modification to punch model 4012A, allows power turn-on, turn-off under program control. | 4012A | $ 300 |
| 4023 | Voltage (EIA) I/O interface for model 37ASR and 37KSR Teletypes and for Bell System Type 103 data set or equivalent when manual answer only is used. 150 baud; add $50 for different baud rates. | 4010 | 50 |

The Teletype models listed below are for 60 Hz, 117 VAC operation. For operation at 50 Hz, 117 VAC, order with type number suffix 1 (e.g., 4010A-1). For operation at 50 Hz, 230 VAC, order with type number suffix 2 (e.g., 4010A-2) and add $50 to price.

| | | | |
|---|---|---|---|
| 4023A | Teletype model 37ASR; 15 cps keyboard printer (upper and lower case); 15 cps 8-channel paper tape reader/punch. | 4023 | 4,600 |
| 4023B | Teletype model 37KSR; 15 cps keyboard/printer (upper and lower case). | 4023 | 3,400 |
| 4029 | Voltage (EIA) interface for Bell System Type 202 data set or equivalent (1200 band), or Type 103 data set or equivalent (150 band). Specify band rate required; add $50 for different band rates. | 4023 | 200 |
| 4036 | I/O interface subassembly for options 4016 and 4037. Occupies one subassembly slot. | Any central processor | 200 |
| 4016 | Card reader control for Type 4016A and 4016B card readers. | 4036 | 850 |
| 4016A | Medium-speed card reader, 225 cpm (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4016A-1 ($3,200). For operation at 50 Hz, 230 VAC, order 4016A-2 ($3,200). | 4016 | 3,000 |
| 4016B | Medium-speed card reader, 400 cpm (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4016B-1 ($3,200). For operation at 50 Hz, 230 VAC, order 4016B-2 ($3,200). | 4016 | 3,000 |
| 4034 | Line printer control for 4034 A & B printers. Full ASCII interface including paper-advance characters. | Any central processor | 1,400 |

Line printers 4034A and 4034B operate at 60 Hz, 117 VAC. For operation at 50 Hz, 117 VAC, order with type number suffix 1 (e.g., 4034A-1). For operation at 50 Hz, 230 VAC, order with type number suffix 2 (e.g., 4034A-2).

| | | | |
|---|---|---|---|
| 4034A | Line printer, 356, lpm, 80 columns, 64 character ASCII (Data Products) | 4034 | 11,500 |
| 4034B | Line printer, 245, lpm, 132 columns, 64 character ASCII (Data Products) | 4034 | 16,000 |
| 4014 | I/O interface subassembly for interface types 4017, 4032. Occupies one subassembly slot. | Any central processor | 200 |
| 4017 | Incremental plotter control for all Series 4017 plotters. | 4014 | 1,500 |

Plotters 4017A-4017D operate at either 50 Hz or 60 Hz, 117 VAC. For operation at 230 VAC, order with type number suffix 2 (e.g., 4017A-2) and add $50 to price.

| | | | |
|---|---|---|---|
| 4017A | Incremental plotter (drum) 12" paper, 0.01", 0.005" or 0.1mm step size, 300 increments/second. (Calcomp Model 565) | 4017 | 6,850 |
| 4017B | Rack-mountable version of 4017A. | 4017 | 7,580 |
| 4017C | Incremental plotter (drum), 30" paper, 0.01" (200 increments/second), 0.005", 0.1mm (300 increments/second) step size. (Calcomp Model 563) | 4017 | $12,000 |
| 4017D | Incremental plotter (flatbed). 31 x 34 inch plot area, step size of 0.01", 0.005", 0.002", 0.1mm or 0.05mm (300 steps/second). (Calcomp Model 502) | 4017 | 25,500 |
| 4017E | Incremental plotter (Z-fold paper), 11" paper, 0.01", 0.005", 0.25mm or 0.10mm step size (300 steps/second). (Houston Instrument Model DP-1). Operates on either 50 Hz or 60 Hz. Line voltage is switch selectable to 117 VAC or 230 VAC. | 4017 | 5,000 |

## ANALOG TO DIGITAL CONVERSION EQUIPMENT

| | | | |
|---|---|---|---|
| 4032 | Basic A/D interface. Connects 4033 Series converters and multiplexers to programmed I/O System. | 4014 | 700 |
| 4033 | A/D interface expansion. Adds data channel connections to 4032 interface. | 4032 | 1,000 |

The A/D converters listed below operate on either 50 Hz or 60 Hz. Line voltage is switch selectable to 117 VAC or 230 VAC.

| | | | |
|---|---|---|---|
| 4033A | A/D converter; 8 bits; no multiplexer. | 4032 | 1,600 |
| 4033B | A/D converter; 8 bits; wiring for multiplexer and/or sample and hold. | 4032 | 2,000 |
| 4033C | A/D converter; 10 bits; no multiplexer. | 4032 | 1,800 |
| 4033D | A/D converter; 10 bits; wiring for multiplexer and/or sample and hold. | 4032 | 2,200 |
| 4033E | A/D converter; 12 bits; no multiplexer. | 4032 | 2,000 |
| 4033F | A/D converter; 12 bits; wiring for multiplexer and/or sample and hold. | 4032 | 2,400 |
| 4033G | A/D converter; 13 bits; no multiplexer. | 4032 | 2,500 |
| 4033H | A/D converter; 13 bits; wiring for multiplexer and/or sample and hold. | 4032 | 2,900 |
| 4033I | A/D converter; 14 bits; no multiplexer. | 4032 | 3,200 |
| 4033J | A/D converter; 14 bits; wiring for multiplexer and/or sample and hold. | 4032 | 3,600 |
| 4033R | Multiplexer switch; 8-channel with timing and decoding for 32 channels. Can handle up to 3 additional 4033S switches. | 4032 | 800 |
| 4033S | Multiplexer switch; 8-channel. | 4033R | 400 |
| 4033V | Sample and hold. | 4033A-J | 350 |
| 4033W | Buffer amplifier. | 4033A-J | 200 |
| 4033X | Enclosure, power supply and decoding for 128-channel multiplexer expander. | | 2,500 |

## DIGITAL TO ANALOG CONVERSION EQUIPMENT

| | | | |
|---|---|---|---|
| 4037 | D/A converter control, connects Series 4037 converters and amplifiers to programmed I/O system. | 4036 | 300 |

The D/A converters listed below operate on either 50 Hz or 60 Hz. Line voltage is switch selectable to 117 VAC or 230 VAC.

| | | | |
|---|---|---|---|
| 4037A | D/A converter; 8 bits. | 4037F-J | 340 |
| 4037B | D/A converter; 10 bits. | 4037F-J | 400 |
| 4037C | D/A converter; 12 bits. | 4037F-J | 425 |
| 4037D | D/A converter; 13 bits (price includes 4037K amplifier). | 4037F-J | 625 |
| 4037E | D/A converter; 14 bits (price includes 4037K amplifier). | 4037F-J | 720 |

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| 4037F | Enclosure, power supply and decoding for up to 2 D/A converters. | 4037 | $ 900 |
| 4037G | Enclosure, power supply and decoding for up to 6 D/A converters. | 4037 | 1,500 |
| 4037H | Enclosure, power supply and decoding for up to 24 D/A converters. | 4037 | 2,600 |
| 4037I | Enclosure, power supply and decoding for up to 8 D/A convert and hold channels. | 4037 | 1,300 |
| 4037J | Enclosure, power supply and decoding for up to 32 D/A convert and hold channels. | 4037 | 2,400 |
| 4037K | Amplifier | 4037A-C | 125 |
| 4037L | Sample and hold | 4037I-J | 350 |
| 4053 | Oscilloscope control for storage and non-storage scopes. | 4037 | 200 |

## DISC AND TAPE

| | | | |
|---|---|---|---|
| 4019 | Disc control for 4019A, 4019B or 4019C discs. Data transfers through the data channel facility. Controls up to 8 Type 4019 disc units. Occupies one subassembly slot. Includes a 10-foot cable. $5/foot for additional length. | Any central processor | 3,000 |

The discs listed below operate at 60 Hz, 117 VAC. For operation at 50 Hz, 117 VAC, order with type number suffix 1 (e.g., 4019A-1) and add $50 to price. For operation at 50 Hz, 230 VAC, order with type number suffix 2 (e.g., 4019A-2) and add $50 to price.

| | | | |
|---|---|---|---|
| 4019A | 64K (16-bit words), fixed head disc. Rackmountable. | 4019 | 4,250 |
| 4019B | 128K (16-bit words), fixed head disc. Rackmountable. | 4019 | 5,250 |
| 4019C | 256K (16-bit words), fixed head disc. Rackmountable. | 4019 | 6,750 |
| 4030 | Magnetic tape control. Controls up to 8 synchronous read/write 7 or 9 track industry compatible tape transports. Occupies one subassembly slot. Includes a 10-foot cable. $5/foot for additional length. | Any central processor | 4,000 |

Tape transports 4030C and 4030D operates at either 50 Hz or 60 Hz. For operation at 230 VAC, order with type number suffix 2 (e.g., 4030C-2).

| | | | |
|---|---|---|---|
| 4030C | Magnetic tape transport 7 track, up to 37.5 ips, industry compatible. (Ampex TMZ) | 4030 | 7,000 |
| 4030D | Magnetic tape transport, 9 track, up to 37.5 ips, industry compatible. (Ampex TMZ) | 4030 | 7,000 |
| 4035 | Magnetic tape adapter kit. Provides unit selection and adapts the Ampex TMZ or PEC 6840 (9-track only) transports to the tape control (4030) bus. | 4030 | 900 |
| 4046 | Disc control for up to 4 moving-arm discs. Occupies one subassembly slot. | Any central processor | 4,000 |
| 4048 | Adapts IBM 2311 disc drives to 4046 disc control. One 4048 required for 4 2311's in the system. | 4046 | 6,000 |

## COMMUNICATIONS EQUIPMENT AND COMPUTER INTERFACES

| | | | |
|---|---|---|---|
| 4015 | High-speed communications controller for high-speed full-duplex or half-duplex synchronous data sets (Bell 201, Bell 301 or equivalent). Automatic line synchronization, work assembly and end-of-transmission recognition. (SYNC and EOT characters may be changed under program control.) All data transfers are through the data channel. Accomodates character widths from 6 to 8 bits. (See options 4020 and 4021). Occupies one subassembly slot. | Any central processor | $2,250 |
| 4020 | Internal clock option. Adjustable oscillator for Type 4015 high-speed communications controller. Used when modem is not employed. | 4015 | 175 |
| 4021 | Parity option for Type 4015 high-speed communications controller. Appends even or odd parity bit to each character (6, 7 or 8 bits long) on transmission and checks parity on reception. | 4015 | 250 |
| 4025 | Interface to IBM System 360/370. Occupies one subassembly slot. Price assumes that customer supplies sufficient 360/370 computer time and support for installation and verification of correct operation. | Any central processor | 5,000 |
| 4026 | Sixteen-line Teletype multiplexer. Controls up to four Type 4027 or 4028 interfaces. Allows for programmed bit assembly/disassembly of characters. Interrupt clock frequency is 550Hz. Add $50 for different frequencies. Occupies one subassembly slot. | Any central processor | 1,000 |
| 4027 | Interface to four EIA standard level lines. Used with Bell type 103 or equivalent data sets. Includes four EIA level inputs in addition to data input. | 4026 | 350 |
| 4028 | Interface to four 20-mil Teletype lines. Used with local Teletypes (less than 100 feet). | 4026 | 300 |
| 4038 | Multiprocessor communications adapter. Up to fifteen 4038's may be interconnected with one per system. Occupies one subassembly slot. | Any central processor | 2,100 |
| 4039A | Ten-foot cable for interconnecting 4038's; $5/foot for additional cable length. | | 200 |
| 4050 | Teletype junction panel for operating up to 16 Teletypes with 4028's. Consists of 16 9-pin connectors. Requires 4052 cable. Rack mountable; 1¾" high. | 4028 | 375 |
| 4052A | Ten-foot cable for connecting 4050 to 4028's; $5/foot for additional cable length up to 100 feet. | 4050 | 200 |

## GENERAL PURPOSE INTERFACES

| | | | |
|---|---|---|---|
| 4040 | General purpose interface board. Busy and Done logic, device selection, interrupt request and acknowledge logic, interrupt mask and I/O signal selection. Space for IC's or sockets. Type 4041, 4042, 4043 and 4044 may be added. Occupies one subassembly slot. | Any central processor | 450 |
| 4041 | 16-bit input register and 16-bit output register for Type 4040 general purpose interface board. | 4040 | 100 |
| 4042 | Data channel connection. Consists of data channel synchronization and request logic, current address register and word count register. | 40401 | 300 |

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| 4043 | Wire-wrap pins inserted into Type 4040 general purpose board. | 4040 | $ 200 |
| 4044 | Wire-wrap pins and 16-pin low profile sockets for dual in-line integrated circuits. | 4040 | 260 |
| 4045 | Back panel connector for 4040. Brings 48 pins from 4040 to an external 52-pin connector. | 4040 | 200 |

## WIRING BOARDS, I/O CABLE, CABINETS

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| 1001 | General purpose wiring frame and connectors. Has capacity for up to 8 Type 1002, 1003, or 1004 general purpose wiring boards. May also use 1014 cover. Occupies one subassembly slot. | | 110 |
| 1002 | General purpose wiring board. Blank with hole pattern for 14-, 16-, 24- and 36-pin IC's as well as discrete components. Capacity is twelve 14- or 16-pin dual-in-lines. | 1001 | 20 |
| 1003 | General purpose wiring board with wire-wrap pins. Same as Type 1002, except wire-wrap pins have been added. | 1001 | 60 |
| 1004 | General purpose wiring board with wire-wrap pins and sockets. Same as Type 1003 except 12 16-pin low profile sockets for dual in-line integrated circuits have been added. | 1001 | 75 |
| 1005A | Five-foot I/O cable including male 50-pin connector on one end; female 50-pin connector on other end. | | 400 |
| 1006A | Ten-foot I/O cable configured as 1005A. | | 450 |
| 1007A | Fifteen-foot I/O cable configured as 1005A. | | 500 |
| 1008A | Twenty-foot I/O cable configured as 1005A. | | 550 |
| 1009A | Twenty-five foot I/O cable configured as 1005A. | | 600 |
| 1010A | Fifty-foot I/O cable configured as 1005A | | 850 |

Note: Any multiple-unit items within a single system are discounted separately. For example, in a system including two Type 4003 memories, there is a two-unit discount on the price of the memories.

| Type Number | Description | Pre-requisite | Price |
|---|---|---|---|
| 1011A | I/O cable (50 twisted pair) Length must be specified (cable only). | | $ 10/ft |
| 1012A | Vertical rack cabinet; 63" high; 19" wide panels; 29" depth; flush side panels; full length rear door with louvres; removable top panel. | | 700 |
| 1012B | Vertical rack cabinet; 28" high; 19" wide panels; 25" depth; side panels; full length rear door; removable top panel | | 375 |
| 1013 | I/O terminator for external I/O bus. | | 160 |
| 1014 | Protective cover for 1001 general purpose wiring frame. Protects wiring and parts. | 1001 | 50 |
| 1015A | Five-foot cable for interconnecting 4019A, B, or C units. $5/foot for additional length, total length of disc and disc control cable not to exceed 50 feet. | 4019A,B, or C | 175 |
| 1016A | Ten-foot cable for interconnecting 4030C or D or 4035 units. $5/foot for additional length. Total length of mag tape and mag tape control cable not to exceed 50 feet. | 4030C or D or 4035 | 200 |
| 1017 | Ten-foot I/O cable for connecting Bell System Type 103 data sets to Type 4050 or to Type 4023. Has 9-pin connector on one end and 25-pin connector on other end. $3/foot for additional cable length. | 4023 or 4050 | 125 |
| 1018 | Ten-foot I/O cable for connecting Bell System Type 202 or Type 103 Data Sets to Type 4029. Has 19-pin connector on one end and 25-pin connector on other end. $3/foot for additional cable length. | 4029 | 125 |
| 1019A | Ten foot Teletype extension cable. $.50/foot for additional cable length. Maximum length for remote operation reader control, 100 ft.; 1000 ft. otherwise. | 4010A-E | 125 |

Note: Any item followed by a letter is a non-discountable item.

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