

PLEASE NOTE: THIS FILE IS NOT PUBLICLY APPENDABLE. If you have information that you feel should be added to it, or discover any errors, please send me a note, and I will update the file. The intent here is not to provide a forum for discussion of the relative merits of different vendors' products, but to provide a single repository for information on PCjr hardware products that are available in the marketplace in order to reduce the number of queries for names of manufacturers of this or that product in the forums.

SOME OF THE VENDORS LISTED MAY PROVIDE ADDITIONAL DISCOUNTS FOR IBM EMPLOYEES, OR MAY HONOR CHECKS WITHOUT A WAITING PERIOD. CHECK WITH THE INDIVIDUAL VENDOR TO SEE IF THIS IS TRUE.

>> The information contained herein may be distributed to the general public, but please remove the preceding notice before doing so. <<

Charlie Dose' (NCTOOLS AT OWGVM1 662-2942)

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PCJR HARDWARE GUIDE

UPDATED: 06/13/88  
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Compiled by Charlie Dose' CompuServe 75116,1164

This is a list of hardware products for the IBM PCjr available from third party manufacturers and vendors. The information is all in the public domain, and may be distributed freely. The information contained herein has been compiled from magazine ads, telephone calls to vendors, messages on CompuServe and various Bulletin Board Systems, and from other PCjr owners.

Products not specific to the PCjr, such as external modems, RS-232 switch boxes, printers and the like are not included in this list. Mail order prices for these products can be found in any of the popular PC magazines (PC, PC World, PC Resource, Computer Shopper).

PLEASE NOTE: INCLUSION OF A PRODUCT IN THIS LIST DOES NOT IN ANY WAY CONSTITUTE AN ENDORSEMENT OF THE PRODUCT BY THE IBM CORPORATION, by COMPUSERVE, INC., or by me. To the best of my knowledge, unless noted in the text, all the firms listed herein are still doing business, and marketing the products listed. Prices shown in the list were the prices in effect at the time the information was added to the list, and may not be current. Check with the vendor for latest information on prices and product availability.

| Recent changes in this file are indicated by a vertical bar (|) in the left margin.

| 05/13/88 Increase in price for Creative Firmware diskette controller.  
| Pruned several listings, deleted most memory prices (see below).  
| 06/13/88 Triton Products now Authorized Direct Marketing Center for Racore.  
| NOTE: SOLID ROCK ELECTRONICS IS APPARENTLY IN THE MIDST OF  
| MOVING. I HAVE NOT MODIFIED THEIR LISTING, PENDING MORE INFO  
| \*\*\*\*\* THE LISTING NOW CONTAINS FORM FEED CHARACTERS FOR EASIER PRINTING \*\*\*\*\*

| \*\*\*\*\* IMPORTANT \*\*\*\*\* THE PRICE OF 256K DYNAMIC RAM CHIPS USED IN MEMORY  
| EXPANSION UNITS IS CHANGING ON A DAY-TO-DAY BASIS. THE ONLY MEMORY PRICES

| I KNOW TO BE ACCURATE AS OF APRIL 6, 1988 ARE THOSE FROM ATTIC TECHNOLOGY,  
| TECMAR AND RACORE. I HAVE DELETED PRICE INFORMATION ON ALL OTHER MEMORY  
| EXPANSIONS FROM OTHER VENDORS. CALL THE VENDOR FOR CURRENT PRICES.

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IBM PARTS DEPOT (Official IBM source of replacement parts)

Parts Identification Line: (303) 924-4015

Parts Order Line: (303) 924-4100

This is IBM's replacement parts depot, located in Boulder, CO. Most PCjr parts, including system boards and power supplies, are available through this depot. Some items are available on an exchange basis. Call the Parts identification line first to get part number.

## -----PCjr Magazines-----

jr Newsletter	*	jr Report
P. O. Box 163	*	c/o the PCjr Club
Southbury, CT 06488	*	1121 Tower Road
Subscription \$18.00/year	*	Schaumburg, IL 60193
	*	Subscription \$19.97/year

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Attic Technology (Prices as of 4/4/88)

P. O. Box 354  
Verona, PA 15147

This firm will upgrade your Tecmar jrCaptain, Microsoft Booster, or IBM 128K Memory Expansion to 512K for \$225.00, including return shipping. All work guaranteed for 90 days.  
NEW PRODUCT: Attic Technology will upgrade IBM 128K memory expansion units to provide 512K of EMS Memory for use with Lotus 1-2-3, Symphony, RAM-disks and print spoolers. The price for this modification is \$325

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B. G. Micro (Price as of 4/88)

P. O. Box 280298  
Dallas, TX 75228  
214-271-5546

Thermal printer for PCjr \$29.95 4 for 105.00 plus shipping/handling  
add \$3.00 for connector for use with PC

This is the Compact printer manufactured by Canon for the PCjr. It connects to the jr. via the serial ("S") connector on the rear of the PCjr System Unit. It requires special paper, available from IBM DIRECT, some Radio Shack outlets, most computer dealers. With the optional connector, it can be used with a regular PC having a serial port.

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COMPUTER RESET (updated 04/02/88)

P. O. Box 461782  
Garland, TX 75046  
214-276-8072

NO CREDIT CARDS \$5 Min. shipping.

Adapter cable for color monitor	\$15.00	
Adapter cable for serial devices	\$15.00	
IBM Cartridge Basic	\$75.00	
IBM PCjr keyboard cord	\$15.00	
IBM Printer attachment	\$79.00	
IBM Power expansion attachment	\$55.00	
Replacement power transformer	\$19.00	
2nd diskette drive system	\$239.00	(uses modem slot)
2nd diskette drive system	\$234.00	(jr hotshot controller)
Keytronics Numeric Keypad	\$39.00	
20 Mb. hard disk system	\$699.00	
ROM Cartridge clock	\$34.00	
PCjr Technical Reference Manual	\$39.00	

This is only a partial list...Write or call for complete list.

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CREATIVE FIRMWARE, INC. (Price Increased May, 1988)  
 P.O. Box 850064  
 Richardson, Texas 75085  
 (800) 622-4070 (Ill. residents, (800) 942-7317)  
 (ORDERS ONLY LINE)

DRIVE IIA CONTROLLER  
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A PCjr second disk drive controller which plugs into the internal modem slot inside the PCjr. Allows you to add a second diskette drive to the PCjr. (NOTE: the drive needs its own housing and power supply). Texas residents add 6.125% sales tax. \$3 for COD orders. Order line accepts VISA, MASTERCARD & AMERICAN EXPRESS.

Drive IIA Controller	\$59.00 plus \$4.00 shipping.
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Cryptographic Software  
 33 Harbour Sq. #2620  
 Toronto, ONT. M5J 2G2  
 Canada

November, 1987

Cryptographic Software, the people who brought us the jrSYNCHRO cartridge (which allows keyboard input during disk I/O, along with other patches) has come out with a new cartridge, jrVIDEO. The new cartridge apparently speeds up BIOS and DOS screen writes.

United States residents are requested to order these products from dealers in the USA, such as Legacy Technology, PC Enterprises, and Paul Rau Consulting. Folks in Canada, contact Cryptographic Software.

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DATADESK INTERNATIONAL Prices as of 3/24/87  
 7601 Haskell Ave.  
 Van Nuys, CA 91406  
 Phone: (800)-826-5398 outside California  
 (800)-542-9602 CALIFORNIA ONLY  
 (818)-780-1673 Technical Support

DataDesk markets an AT-style keyboard with adapter cable for the PCjr. It has been received enthusiastically by people who have purchased it. A promotional offer includes Borland's Superkey (\$69.95 retail value) with the keyboard at an extra charge.

Prices:

AT-style keyboard for PCjr, with Superkey	\$134.95 + \$10 shipping
AT-style keyboard for PCjr without Superkey	\$124.95 + \$10 shipping

Turbo-101 Enhanced Keyboard. This is Datadesk's version of the new IBM Enhanced Keyboard. Packaged with Borland's Turbo Lightning.

Price: \$169 plus \$10 shipping for PCjr version. Subtract \$10 if you don't want Turbo Lightning.



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Dolphin Computers  
 309 Judah St., Suite 214  
 San Francisco, CA 94122  
 (415) 566-4400

Updated 04/06/88

Dolphin carries a supply of IBM accessories for the PCjr, including serial adapter, printer adapter, keyboard cord, etc. They also carry third party products. A few examples:

	512K Memory Sidecar	call for latest price
	Second disk drive	\$247.00
	Mouse for PCjr	\$88.00
	Replacement diskette drive	\$99.99

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ES Quality Products  
 767B Redwood Place  
 Reno, NV 89502  
 (702) 786-4059

Info corrected 14 Dec 87

\*\*\*\*\* jrHotShot Board \*\*\*\*\*

ES (Ed Strauss) is producing an addon card for the PCjr which plugs into the 8088 socket (for those of us lucky enough to have socketed 8088's). It comes in several flavors: clock/calendar, 256K or 512K memory, 2nd Disk controller, in any combination of the three.

1. 256K RAM added memory ----- \$149
2. 512K RAM added memory ----- \$189
3. Real time clock (alone) ----- \$ 59
4. 2nd Disk controller (alone) ---- \$ 79
5. Clock plus controller ----- \$ 99
6. Clock & memory 1 or 2 ----- add \$ 35 to memory price
7. Controller & memory 1 or 2 -- add \$ 49 to memory price

All are plus \$2.50 shipping, \$1.80 COD charges. He accepts personal checks, but no credit cards.

Power consumption of the 512K memory board is reported to be 0.8 watts. It is populated with 256K dynamic RAMs rated at 150 ns. or better. Heat generated by the expanded memory is negligible. Adequate reserve power will be available from your power supply for either an internal modem or a printer adapter, but not both. If both are installed, you should have a power expansion sidecar ahead of the printer adapter.





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INTEGRITY TECHNOLOGY (UPDATED 10/04/87)  
 105 Serra Way, Suite 230  
 P. O. Box 360604  
 Milpitas, CA 95035-0604  
 Phone: 408-262-8640 MCI Mail: 2098377

Integrity offers ROM cartridge kits for the PCjr. The kit includes a two-piece ABS plastic enclosure, a printed circuit board that accepts EPROMS or ROM's from 8K thru 256K in size and a die-cut foam piece used as a filler to hold everything in place. The circuit board will accept two 28 pin IC's. It will accept 27256, 27128 or 2764 EPROM's, and by installation of a jumper on the board, will also accept 2732, 2716 or 2708 EPROM's.

For programming the EPROM's, they recommend the DATA I/O model 201 EPROM programmer with RS-232 interface. They provide EPROM/ROM programming, assembly and testing services for high volume production.

ROM CARTRIDGE KITS FOR PCJR.	PRICE	\$5.75EA.,	QUANTITY 4+
(minimum order is 4 pieces)		4.95 ea.,	quantity 100+
Technical Reference manual with instructions, ROM programming conventions, addressing info., etc.		\$1.50--FREE	W/100 ORDER

NEW ITEM: PCjr CLOCK CARTRIDGE. Plugs into either cartridge slot. Includes diskette with programs to GET, SET and SHOW the date and time. Insert GETTIME command in AUTOEXEC.BAT file and time and date will be set automatically at power-up or boot. User replaceable lithium battery rated at 10 year life. Price \$34.50

Add \$3.00 shipping/handling for first 2 lb., \$2.00 for COD orders.

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J&M SYSTEMS, LTD. (INFORMATION DATED FEB, 1987)  
 15100-A Central S.E.  
 Albuquerque, New Mexico 87123  
 (505) 292-4182

PC2C ADD-ON DRIVE SYSTEM: The PC2C controller replaces the IBM controller board and will support up to three floppy drives. Software included configures your DOS to recognize the second drive. Available options:

PC2C Controller Board & Software	\$149.00
PC2C Controller, Software, cable, & one external drive	\$295.00
PC2C with two external drives	449.00
PC2C with one external drive in dual case	\$325.00
PCjr Electronics Kit	350.00

Includes: Konan DJ200 Hard Disk Controller,  
 Software Drivers, cables & installation instructions.

Prerequisites: PC2C Controller /OR/ IBM Controller-modified  
 Hard Drive w/ST506-compatible interface, power supply & case.

Half-height floppy case (for single drive), with power supply... \$ 65  
 Full-size floppy case (for two half-height drives), w/pwr sup... \$109

HARD DRIVE ADD-ON SYSTEM  
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These PCjr hard drive systems come complete with case, power supply, cables, MS-DOS drivers, host adaptor and instructions for use. The drives can be attached to the PC2C disk controller (see above) or, with some modifications, to the original IBM PCjr disk controller board (CAUTION: This will void any warranties!).

10 Megabyte (Mb) system	\$750.00
20 Mb System	995.00

J&M accepts VISA, Mastercard or prepayment. All orders shipped by UPS ground with Blue Label at extra cost.

KEYTRONIC Prices updated 12/16/87  
P.O. Box 14687  
Spokane, Washington 99214  
(800) 262-6006 (7am-3pm Pacific time)

KEYTRONIC PCjr REPLACEMENT KEYBOARDS  
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Keytronics makes the following replacement keyboards for the PCjr. (Prices are suggested retail, many mail order houses offer lower prices.):

KB5149jr---Numeric Key Pad	\$ 99.95(no longer in production)
KB5150jr---IBM PC type	139.00
KB5151jr---Enhanced keyboard	199.00

All Keytronic keyboards for the PCjr include the cable to connect to PCjr. Nothing additional is needed.

LEGACY TECHNOLOGIES, LTD. (Prices as of 1/88)  
4804 Superior Street  
Lincoln, Nebraska 68504  
(402) 466-8108 (in Nebraska)  
(800) 228-7257 (outside Nebraska)  
Electronic Bulletin Board (BBS): (402)-466-8114 (24 hours)  
300-1200-2400 baud service

Legacy has a series of products which center around their basic product, the LEGACY I. Following is a description of Legacy expansion products.

LEGACY I: This is the base Legacy expansion unit. It contains the 4-slot L-bus expansion system, 70 watt power supply and cabinet, which sits on top of the PCjr system unit. Also included are all the cables needed to connect to the PCjr, software for advanced features, and installation manual. Space for up to 4 Legacy L-bus expansion cards (see below) and either a floppy or hard disk drive. #L-1 Price \$140.00

LEGACY II: Everything that the LEGACY I has plus a DSDD disk drive and floppy controller. Price \$349.00

LEGACY III: A LEGACY I with a 20 Mb hard disk and interface cards. Allows addition of two more hard drives. price \$1095.00

L-Bus EXPANSION CARDS: L-Bus expansion cards fit the Legacy series slots to further expand and customize your system to fit your needs.

EXP series are memory expansion cards providing either 128K or 256K of additional RAM on each card. By installing two 256K cards, memory can be increased by 512K, for a total of 640K. Compatible with IBM, Tecmar, MicroSoft and Quadram Sidecars.

#EXP-128	128K card	119.00
#EXP-256	256K card	159.00

CPS is a L-bus card with a clock/calendar and a parallel printer port. Comes with print spooler software. #CPS \$ 99.00

Hard Disk Interface is a two card system: one fits into any of the Legacy series slots, while the other is attached to the hard disk drive. Drives can be 10, 20 or 30 Mb., and the system can control up to three hard drives. Self-booting can be performed from the hard drive. #HDC \$595.00

Legacy also sells the following PCjr accessories:

Legacy 2 Floppy Drive Controller (Replaces IBM controller, allowing another DSDD drive to be attached)	#FDC	\$99.00
jrSynchro Cartridge	#JRS	25.00

(This is the jrSynchro cartridge produced by Cryptographic Software. It provides a larger keyboard input buffer, reducing 'beeps' and dropped characters when you type fast. In addition, it patches the NMI bugs found in DOS 2.1 NOTE: this product may not be compatible with expanded keyboards and DOS versions after 2.1

SERIAL INTERFACE CARD	#SERINT	75.00
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Fits in the internal modem slot, giving a true RS-232 interface with 4800 baud capability and true ring indicate. It is addressed as COM1: and frees up the PCjr's serial port for other serial devices, such as a mouse. Output connector is standard D-25.

8087 Math coprocessor board (works only with socketed 8088. Plugs into 8088 socket, then you plug 8088 into the board. Allows you to install an 8087 (not included) to speed up floating point math operations in programs that look for an 8087 (such as Lotus 1-2-3)

#8087 DB	\$89.00	
8087 math coprocessor	#8087 chip	110.00

PCjr Monitor Adapter: Adapts PCjr Monitor for use with CGA (Color Graphics Adapter) on standard PC.	#A-11	\$55.00
IBM PCjr Hardware Maintenance & Service Manual, with test jumper plugs for running diagnostics	#HSM	\$30.00
IBM PCjr Technical Reference Manual	#TRM	\$30.00
Both manuals (HSM and TRM)	#TRHSM	\$50.00

Legacy also has scarce items such as serial cables, cassette adapter cables, joysticks, Power supplies, diskette drive replacement belts, carrying cases, and more. Call for info. They also market a line of PC clones and will take your PCjr in on trade as partial payment. Once again, call for info.

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Mendelson Electronics Co. Updated 02/04/88  
 340 E. First St.  
 Dayton OH 45402  
 (513) 461-3525 Visa, MasterCard accepted

PCjr Speech attachment #220-200 \$30.00 + 3.50 shipping  
 PCjr carrying case #220-505 \$10.00 + 5.50 shipping  
 TEAC FD55B diskette drive \$85.00 + 3.50 shipping

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Micro Marketing (Added 2/4/88)  
 P.O. Box 754  
 Lilburn, GA 30226-0754 800-652-9289 (404-441-1081 in GA)

Call or mail in for a catalog. This firm handles Racore products,  
 ES Quality Products' jrHotShot line, and other PCjr-specific lines.

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MICRO PRODUCTS CORPORATION (Info updated 1/05/88)  
 Suite C (Memory prices deleted 5/88)  
 6912 SOUTH 185 WEST  
 MIDVALE, UTAH 80847 NO CREDIT CARD ORDERS  
 (801) 562-5008

Micro Products manufactures the former Impulse (later Alpha)  
 line of memory expansion sidecars. They offer three basic expansion  
 boards. A brief description of each is listed below.

\*\* Models 100, 130, and 140 are memory expandable from 0 to 512K.  
 Each includes a Parallel Printer Port and a Clock/Calendar. Each  
 will allow the IBM PCjr, with its own 128K of memory, to be  
 expanded to 640K of RAM memory. All include RAM disk software.

Model 100	0K, parallel port, clock/calendar	\$230
Model 130	256K, parallel port, clock/calendar	\$call
Model 140	512K, parallel port, clock/calendar	\$call

\*\* Models 101, 131, and 151 are memory expansion boards only.

Model 101	0K	\$call
Model 131	256K	\$call
Model 151	512K	\$call

Model 160 clock/calendar, parallel port (no memory) \$125

\*\* None of the boards listed above require an external power supply.

Orders phoned in are subject to UPS Shipping charges of approximately  
 \$1.75 per board and a \$3.00 C.O.D. service charge. If payment is  
 received with the order, Micro Products will cover the shipping costs.  
 Orders are normally filled within 5 working days of receipt.

All Micro Products expansion modules are covered by a 2 year limited  
 warranty.

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MSC (Formerly Micro-Service Company) (Updated 3/14/88)  
 4764 Elison Ave.  
 Baltimore, Md. 21206  
 (301)-325-6417  
 (301)-833-8976  
 9:00 A.M. to 9:00 P.M. Mon-Sat (May get answering machine--leave message.)

Memory Upgrades of Tecmar jrCaptain, Microsoft Booster and IBM to 512K

ES Quality Products jrHotShot Memory expansion units

HARDBIOSjr Cartridge to allow the RIM type hard drive system to boot directly from the C: drive - \$79.00

Add-On Disk Drives - Includes controller modification, case, cable, drive, and power supply. (you send them your diskette controller).

5 1/4" 360K - \$239.00

3 1/2" 720K (requires DOS 3.2 or later) - \$269.00

| Repair Services - MSC offers repair service on all IBM PC/XT/AT/jr  
 | and compatible systems and peripherals.

| (EXAMPLES)

PCjr w/ 1 drive and 128K	- \$85.00 + parts
Memory sidecars	- \$65.00 + parts
RGB Monitors (CGA)	- \$95.00 + parts
Printers (Dot Matrix)	- \$75.00 + parts

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Oowl Software (9/20/87)  
 1435 Burnley Sq. N.  
 Columbus, OH 43229  
 (614) 436-0219

Call or write for free catalog. Oowl is another mail order dealer with an extensive line of PCjr products in its catalog. Examples:

Complete 2nd diskette drive additions, starting at \$189.95

ES Quality Products jrHotshot products

PCjr joysticks \$16.95, 2 for \$32.00 + \$4.00 shipping

Paul Rau Consulting  
260 Lincoln Way N.  
Galt, CA 95632

(Updated 01/07/88)  
| Selected prices updated 4/88

(209) 745-9284 Message hours (voice) 9:00 AM to 4:00 PM PST  
(209) 745-9284 Jr Blue BBS 2400 5:00 PM to 8:00 AM week nights, and all weekend. The best time to reach him is after 5:00 pm at (209) 745-2696.  
Add \$5.00 for COD orders. No personal checks accepted on COD orders.  
Now accepting Mastercard and Visa, please add 4% to the total sale.  
Shipping extra for foreign orders. Please allow 2 weeks for shipping.

Following is a partial list of products available from Paul Rau:

\*\*\* ES QUALITY PRODUCTS jrHotShot Memory products

\*\*\* SIDECAR Memory from Micro Products \*\*\*\*\*

\*\*\* DISK DRIVES \*\*\*

5-EXT	5.25" 360k ext. drive (drive,case,pwr sup)	\$179	\$9
5-EXT SYS	5.25" 360k ext. system (dr,case,pwr sup,cont)	\$239	\$9
5-CUSTOM	Same as 5-EXT SYS except in a custom case	\$259	\$9
5-DRIVE	5.25" 360k replacement drive - direct drive	\$ 99	\$9
3-EXT	3.50" 720k ext. drive (dr,case,pwr sup)	\$239	\$9
3-EXT SYS	3.50" 720k ext,system (dr,case,pwr sup,cont)	\$299	\$9
3-CUSTOM	Same as 3-EXT SYS except in a custom case	\$319	\$9
HS-DIS	jr Hotshot floppy disk controller & cable	\$ 79	\$9
3-DISKS	3.5" Dual sided 720K diskettes- 10 pack	\$ 25	\$3

The external drive system is housed in a metal case 3.5" wide x 6" high x 13" deep. It has its own power supply and uses the jrHotshot controller. See the jrHotshot memory section if you would like to add memory to the board. The custom cabinet is the same except that the case is a Racore or Legacy type that is 2" high and sits on top of the PCjr. The 3.5" drives come with a device driver to allow you to use DOS 2.1.

\*\*\*\*\* Hard drives \*\*\*\*\*

RO-20	20meg system by Paul Rau Consulting	\$579	\$9
RO-40	40meg (2-20megs)system by Paul Rau Consulting	\$929	\$9
RO-25	20meg + 5.25" floppy drv.(controller not inc)	\$799	\$9
RO-23	20meg + 3.50" floppy drv.(controller not inc)	\$829	\$9
RM-20	20meg system with a 1200 baud modem	\$859	\$9
RM-40	40meg system with a 1200 baud modem	\$1129	\$9

SCSI Host adapter (internal modem card), cable, software	\$115	\$3
SASI Controller card with ST-506 interface	\$125	\$3
External hard drive cabinet with power supply	\$165	\$9
Seagate ST-225 20 meg bare hard drive	\$299	\$3
Cartridge to allow boot from hard drive	\$ 79	\$3

The hard drive is housed in a metal external case. It is 19" wide x 15" deep x 3.5" high. The entire unit is surge protected and has a fan and a 65 watt power supply, more than enough to drive two hard drives. There is one main power switch and four auxiliary switches that run four outlets in back. The drive is guaranteed for one year by Seagate and the rest of the components are guaranteed for 90 days. The hard drive interfaces at the internal modem slot. The interface card is available with a modem---add \$200 for 1200 baud and \$349 for 2400 baud. A modem upgrade is also available at a later date. The hard drive packages come with hard drive utilities including a menu system and a backup program.

\*\*\*\*\* RACORE Expansion Units \*\*\*\*\*

M-1500	Racore Drive 2 Plus drive chassis	\$292	\$9
M-1501	Racore Drive 2 Plus drive chassis with DMA	\$325	\$9
M2101	256k memory for Racore Drive 2 Plus	\$ 99	\$3
M2103	512k memory for Racore Drive 2 Plus	\$125	\$3
M1521	20mb Hard Drive Chassis	\$950	\$9
M9100	PC style Keyboard w/adaptor cable	\$ 90	\$6
M9101	5151 style Keyboard w/adaptor cable	\$129	\$6
M9102	AT style Keyboard w/adaptor cable	\$109	\$6
M3200	Keyboard adapter cable	\$29	\$3
M3400	PC I.D. Cartridge	\$18	\$3

\*\*\*\*\* Modems, CABLES, Keyboards and Miscellaneous Items \*\*\*\*\*

IN-1200	1200 baud INTERNAL Modem for PCjr	\$249	\$6
IN-2400	2400 baud INTERNAL Modem for PCjr	call for details	

Modems are 100% Hayes compatible and carry a 90 day guarantee.

PC-JRMON	Cable to use PC with the PCjr Monitor	\$39	\$4
JR-PCMON	Cable for using PC style monitor with PCjr	\$19	\$4
PC-CEN	STANDARD 6 FT CENTRONICS PRINTER CABLE	\$15	\$4
PC-232	STANDARD 9 FT SERIAL MODEM CABLE	\$15	\$4
JR-232	JR SERIAL ADAPTER - PCJR TO RS232	\$19	\$4
JR-HAYES	8 FT PCJR TO HAYES MODEM cable	\$19	\$4

Jr Datadesk	PC 8700 Keyboard w/Superkey	\$130	\$6
Jr Datadesk	Turbo 101 K/B w/TurboLightning	\$175	\$6
Jr Datadesk	Turbo 101 Keyboard	\$160	\$6

CLK-ROM	Clock calendar chip for motherboard	\$39	\$3
CLK-CART	Same as above except a cartridge	\$59	\$3
DUAL-FONT	Chip to improve PCjr monitor readability	\$19	\$3
NEX-jr	8MHz Nickel Express Jr turbo board	\$79	\$3
	Synectics Software Quicksilver cartridge	\$30	\$3

The Nickel Express speedup board requires removal of soldered-in clock chip from PCjr motherboard, soldering a socket in its place, then insertion of the speedup board, plus replacement of clock chip.

Allows switching of clock rate from original 4.77 Mhz to as high as 8 Mhz. SOLDERING EXPERIENCE REQUIRED! If you can't tackle the job, Paul Rau will do the installation for \$30.

IMPORTANT: SPEEDUP BOARDS MAY NOT WORK WITH SOME AFTERMARKET MEMORY EXPANSIONS. CHECK WITH PAUL RAU BEFORE ORDERING THE NICKEL EXPRESS. Problems have been observed in trying to use the Nickel Express with Tecmar jrCaptain and the ES jrHotshot.

PC Enterprises  
 P. O. Box 292  
 Belmar, NJ 07719  
 (201)-280-0025

(7/28/87)

(800)-922-PCJR (922-7257) Order line, call this # for a catalog.  
 Visa, Mastercard accepted--2 week hold on personal checks.  
 Following is just a sample of items available from their catalog.

512K memory expansion with clock/calendar and parallel port	\$295
jrROM clock--clock/calendar, installs under ROM chip	\$39.95
be sure ROM is socketed before ordering--to locate, remove diskette drive and locate 28 pin IC behind first cartridge slot. Correct IC will be marked with IBM # 1504036.	
jrVIDEO cartridge--replaces BIOS video routines...speeds up screen updates. (by Cryptographic software) #1802	\$29.95
PC ID cartridge---allows some non-jr. programs to run	\$15.95
IBM power expansion units for jr	\$65
AT-style keyboard (wireless)	\$99
Serial adapter cables	
18 inch	\$15.50
6 foot	\$19.95
12 foot	\$27
Enclosure for second diskette drive, sits on top of jr	\$75
Above enclosure, with power supply	\$109
JRDRIVE II second diskette drive for the PCjr, with above enclosure, power supply and controller	\$245
New: Hard disk for PCjr (20 Mb), in above enclosure, with controller, software, etc. Uses internal modem slot.	\$695.00

Peanut Gallery (Updated 1/88)  
 P. O. Box 1587  
 Troy, Michigan 48099-1587  
 (800)-835-2246 voice (except Kansas)  
 (800)-362-2421 voice (Kansas only)  
 (313)-585-3893 Data: 300/1200/2400 baud

Sample items from the Peanut Gallery Winter Catalog 1987-1988.

Legacy serial card, uses modem slot, provides DB-25 connector w/9600 bps transmission	83
5.25" top-mount 360K floppy drive	269
3.5" top-mount 720K floppy drive	299
3.5" external 720K floppy drive (3rd drive)	299
20M external hard drive w/SPC controller	649
40M external hard drive w/SPC controller	839
Datadesk Turbo 101-key keyboard w/PCjr connector	159
Microsoft mouse w/PC-Paintbrush (requires serial adapter cable)	149
" " w/Easy CAD (requires serial adapter cable)	169
Cables	
PCjr Monitor --> IBM PC	35
PCjr Serial Adapter cable	22
Keyboard cable	22



PC monitor --> PCjr

20

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RACORE COMPUTER PRODUCTS, INC.  
170 Knowles Ave.  
Los Gatos, California 95030

(Prices as of 5/15/88)  
Subject to change without notice

| (408) 374-8290 (Main office)  
| (800) 521-6366 (California only)  
| (800) 325-1833 (Information, orders) except California  
| (801) 363-8720 (BBS number, 300/1200 baud service)

| Triton Products Company is now the direct marketing center for Racore  
| products.

| Triton Products Company  
| 1159 Triton Drive  
| Foster City, CA 94404  
| (800) 227-6900

Racore has an entire line of products dedicated to the PCjr  
and was one of the first to offer PCjr expansions.

DRIVE TWO PLUS: A second floppy disk drive--comes in an expansion chassis with a power supply and one memory expansion slot. It sits on top of the PCjr and a special drive cable takes the place of the original IBM cable to allow access to the second drive. DOS recognizes the added drive as the B: drive. A version of this product is available with factory-installed DMA (Direct Memory Access), which allows diskette access and keyboard operations to run concurrently. A clock/calendar and parallel printer port come standard. The unit has a PC/PCjr mode toggle switch which allows some IBM software to operate that normally will not run on a PCjr.

HARD DISK DRIVE TWO PLUS: This is a Fixed Disk version of the Drive Two Plus, with DMA and either a 10 Mb or 20 Mb drive.

LANpac JR: An IBM compatible local area network (LAN) allowing up to 250 stations with up to 1,000 feet between stations. Connects to PC, XT, AT or LANpac. Requires DOS 3.1 and Racore's DMA option.

256K/512K MEMORY PLUS: Using 256K chips, this is a memory board which uses the internal slot in the Racore drive units. A special upgrade for owners of Racore 384K cards is available. You MUST have proof of purchase in order to upgrade the 384K card.

KEYBOARD ADAPTOR CABLE: Allows use of an IBM (or fully compatible) keyboard on a Pcjr. It connects to the LP connector on the PCjr in addition to the K connector. Because of this, it cannot be used in conjunction with other devices which use the LP connector, such as the Mouse Systems Serial Mouse. Also, these connections are made with a single molded connector, which cannot be used with the plastic "plug protectors" installed on the PCjr case.

PC ID CARTRIDGE: A plug-in cartridge that tricks software into thinking the PCjr is a real PC. This is not a keyboard buffer, nor does it speed up your jr. Works ONLY with Racore or Quadram units.

CAUTION: Racore's DMA option will not allow the use of the side bus expansion port on the PCjr to operate correctly with certain other products. Microsoft Boosters, Tecmar jrCaptains,

IBM memory sidecars and SPC's hard disks will be rendered useless by this option. RIM drives, which use the Internal Modem slot are also affected. No word on the Creative Firmware or J&M Systems addons. You can, however, use the IBM printer adapter.

## RACORE IBM PCjr ENHANCEMENT PRODUCTS Prices current as of 9/87

Model	Description	Price	Notes
1500	Drive II Plus	\$299.00	
1501	Drive II Plus w/DMA	359.00	
1504	10MB Drive II Plus (3rd drive model)	795.00	1
1507	20MB Drive II Plus (3rd drive model)	895.00	1
1511	10MB Drive II Plus w/DMA (2nd drive)	795.00	
1521	20MB Drive II Plus w/DMA (2nd drive)	895.00	
2101	256KB Memory Board	149.00	
2103	512KB Memory Board	189.00	
1502	Model 1500 to 1501 DMA Upgrade	85.00	
1503	Model 1200 to 1501 DMA Upgrade	185.00	
1506	Model 1400 to 1511 DMA Upgrade	185.00	3
3200	Keyboard Cable Adapter	29.00	
3400	PC I.D. Cartridge	12.00	
9100	PC Keyboard Package	99.00	4
9101	5151 Keyboard Package	139.00	4
9102	AT Keyboard Package	119.00	4
?	LANpac jr	295.00	1a

## NOTES:

1. These require one of the following combinations:
  - a) 1501 Drive II Plus w/DMA;
  - b) 1500 Drive II Plus and 1502 DMA Upgrade;
  - c) 1200 Drive II (??) and 1503 DMA Upgrade; or
  - d) 1400 Drive II (??) and 1506 DMA Upgrade.
2. This requires the 2101 256KB Memory Board.
3. The model 1400 is a 10 Mb hard drive unit.
4. These all include the 3200 Keyboard Cable Adapter.

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Radio Shack  
various locations

ITEM #25-1033 SmartWatch A clock/calendar board that plugs into one of the ROM sockets on the PCjr motherboard. (You must have socketed ROM for this...the chips in question are located on the motherboard behind the left cartridge slot). \$39.95

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RIM ELECTRONICS  
3155 Thomas Grade Road  
Morgan Hill, California 95037

(Updated 10/14/87)

INFORMATION ONLY ENTRY: RIM IS NO LONGER ENGAGED IN RETAIL SALES. PRESENT OWNERS OF RIM PRODUCTS CAN CONTACT THEM AT THE ABOVE ADDRESS. Some products previously marketed by RIM are now sold through JDR in San Jose. The jr Drive Hard Disk expansion marketed by PC Enterprises uses the RIM controller, as does the unit offered by Paul Rau.

Solid Rock Electronics  
 1311-B Knight St.  
 Arlington, TX 76015  
 (817) 467-7878

Updated 01/07/88

An authorized IBM repair center, Solid Rock offers a variety of products for PCjr. They claim to have the lowest prices in the U. S. on upgrades and replacement parts for PCjr. They perform upgrades on Microsoft Booster, IBM and Tecmar memory sidecars to 512K of memory. They handle ES Quality Products' jrHotshot expansions, Racore products, replacement diskette drives, etc. Call or write for catalog.

Second diskette drive system (direct drive unit)	\$219.00
Replacement diskette drive for PCjr.	\$89.00
20 Mb. Hard drive system (uses internal modem slot)	\$599.00

Synectics Software & Systems  
 P.O. Box 53501  
 San Jose, CA 95153-0501  
 (408)-281-7780

(updated 2/27/88)

Charge cards NOT accepted

#### PCjr Product list

**ROM-CLOCK** The ROM-CLOCK keeps track of the date and time while your PCjr is turned off. The ROM-CLOCK fits under one of the socketed ROM IC's on the mother board. The included software allows you to read and set the date and time. By adding just one line to your AUTOEXEC.BAT file, the date and time will be updated automatically.

- \* keeps track of the year, month, day, hour, minute, second and hundredths of a second.
- \* handles leap years automatically
- \* internal battery has a ten-year life (not replaceable)
- \* complete software compatibility: uses only ROM address space
- \* hardware requirements: a socketed ROM (if unavailable, see SLOT-CLOCK)

**SLOT-CLOCK** The SLOT-CLOCK keeps track of the date and time while your PCjr is turned off. The SLOT-CLOCK fits in a free cartridge slot in your PCjr. The included software allows you to read and set the date and time. By adding just one line to your AUTOEXEC.BAT file, the date and time will be updated automatically.

- \* keeps track of the year, month, day, hour, minute, second, and hundredths of a second
- \* handles leap years automatically
- \* internal battery has a ten-year life (not replaceable)
- \* complete software compatibility: uses address space (E0000h-E7FFFh) that may conflict with some cartridge software
  - works with cartridge BASIC and all of our cartridge products
- \* hardware requirements: one free cartridge slot

**KEYLIGHTS CARTRIDGE** The KEYLIGHTS CARTRIDGE adds status indicator lights for three important modes: caps lock, num lock, and scroll lock.

- \* plugs into either cartridge slot
- \* three LED status lights mounted in the cartridge
- \* hardware compatibility: requires one free cartridge slot

\* software compatibility: no interference with any other cartridge

PROGRAM CARTRIDGE DEVELOPMENT SYSTEM

The PCDS allows you to write and debug programs designed for the three types of cartridges defined:

1. Initial Program Loadable (IPL) - given control when the PCjr is first turned on. Most games are of this type. Programs should be written in Assembly Language. (Assembler not provided)
  2. DOS Command Cartridge (DOS) - adds DOS commands to the PCjr's vocabulary. The IBM Cartridge BASIC is an example that adds two DOS commands: BASIC and BASICA. Programs should be written in Assembly Language. (Assembler not included)
  3. BASIC Programs (BASIC) - given control when IBM cartridge BASIC is activated by powering up without a disk, or typing BASIC or BASICA at the DOS prompt. Programs are written and debugged in BASIC. Requires IBM cartridge BASIC. (not provided)
- \* 8K, 32K, or 64K of RAM at segment D000H
  - \* external select switch (great for debug)
  - \* programming aids and example programs
  - \* hardware requirements: one free cartridge slot and access to the side I/O channel
  - \* software requirements: uses address space that may conflict with some cartridge software

PROGRAM CARTRIDGES: These cartridges allow permanent storage of your PROGRAM CARTRIDGE DEVELOPMENT SYSTEM programs.

Cartridges are made from your program diskette.

- \* 8K, 32K, or 64K of EPROM at segment D000H
- \* debug programs using the PROGRAM CARTRIDGE DEVELOPMENT SYSTEM
- \* EPROM programmed from your diskette

ROM-CLOCK .....	\$ 39.95
SLOT-CLOCK .....	59.95
KEYLIGHTS CARTRIDGE .....	18.95
PROGRAM CARTRIDGE DEVELOPMENT SYSTEM (8K) .....	54.95
PROGRAM CARTRIDGE DEVELOPMENT SYSTEM (32K) ....	84.95
PROGRAM CARTRIDGE DEVELOPMENT SYSTEM (64K) ....	124.95
PROGRAM CARTRIDGES (8K) .....	29.95
PROGRAM CARTRIDGES (32K) .....	34.95
PROGRAM CARTRIDGES (64K) .....	49.95

Quantity Purchase Discounts available.

| DUAL FONTS -- now marketed by Paul Rau Consulting and PC Enterprises.

| THIS PRODUCT IS NO LONGER AVAILABLE FROM SYNECTICS !!!!

The DUAL FONTS package gives you a choice of two HARDWARE fonts: one that is similar to the original IBM font, and a new font that is much easier to read under most conditions. The new font uses thinner lines allow more readable characters. This makes reading 80 column text and numbers on a PCjr Color Display a pleasure - not a strain. Since there are some color combinations of text and background that make the characters hard to read, you can simply toggle between the two fonts and determine which one you like the best.

- \* two hardware fonts for improved readability
- \* easy 'hot-key' toggling between fonts
- \* does not interfere with any PCjr hardware
- \* no soldering required
- \* software compatibility: does not use any dedicated address space
- \* hardware requirements: replaces the character generator ROM (must be socketted for easy installation)

## HotROD CARTRIDGES (\$49.95)

The HotROD CARTRIDGE is a fast access 64K Read Only Disk. Once installed, it acts like a read-only hard disk.

To determine which files you want to put on your HotROD cartridge, you first install the HotROD ram disk on your PCjr with the provided software. The ram disk allows you to test out your programs, and see how they will fit in the HotROD cartridge. When you have the HotROD ram disk set up the way you want the cartridge to look, just save the ram disk in a special file (with the provided program). Mail this file to Synectics, and we will mail you a HotROD cartridge with your programs permanently installed.

- \* 64K fast access Read Only Disk (62K free for programs)
- \* red access indicator LED (works like the one on your disk drive)
- \* set up and test in RAM before you order the HotROD cartridge
- \* software compatibility: uses address space that may conflict with some cartridge software. The LOW memory version (D0000-DFFFF) works with Cartridge BASIC, and the HIGH memory version (E0000-EFFFF) works with PCDS cartridge
- \* hardware requirements: requires one free cartridge slot

## QUICKSILVER CARTRIDGE

The QuickSilver cartridge is designed to make your PCjr power up quickly and silently and run more PC programs than it ever could before!

The PCjr is notorious for the amount of time it takes to go through the memory check and the annoying beep that follows. The QuickSilver cartridge replaces the PCjr's memory test with a new test that is fast and efficient. This new test is over 16 times faster: the equivalent of a 76 MHz PCjr without this cartridge. The PCjr uses the beeper to signal both successful boot and boot failure. The QuickSilver cartridge changes all this, so that beeps only occur on a real error.

Whenever the QuickSilver cartridge is installed, the PCjr's keyboard BIOS is modified to make it work like a PC (senior). This allows your PCjr to run some programs that previously only worked on a PC.

This cartridge works in either slot, works with all other cartridges, does not use any program memory, and does not need any supporting software programs.

\$29.95 for the 'normal' cartridge

\$34.95 for the fast components cartridge (guaranteed to work at 8MHz)

California residents add 7% sales tax. Postage and handling for all orders add \$2.00 (COD orders add \$3.50) Charge cards not accepted. Allow two weeks for personal check clearance. Orders accompanied by a cashier's check or money order are processed immediately.



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SYSTEMS PERIPHERALS CONSULTANTS (SPC) (UPDATED 2/04/88)  
 9747 Businesspark Avenue 20 Mb. drive price updated 6/88  
 San Diego, California 92131  
 (619) 693-8611  
 (800) 345-0824

#### DISKITjr HARD DRIVES

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Using the side bus of the PCjr and interface card of their own design, SPC has produced one of the most flexible systems for adding a hard disk to your PCjr. The company provides over the phone support to install and format their disks. They have gone to great lengths to fix any problems, be it hardware or software. The DISKITjr comes complete with controller sidecar, chassis with power supply, and drive. A boot prom is expected to be available shortly. SPC often has special sales on their products, so it is best to check with them on price.

Following are highlights from recent SPC brochure:

IBM/PC Compatibility--If you ever decide to upgrade to any PC/XT compatible just call SPC and arrange for a swap to an XT-compatible booting controller. Your Diskit will NEVER BECOME OBSOLETE, and there's NO CHARGE.

Upgrade flexibility--installation software is menu-driven, so you can easily install a higher capacity Winchester in the future.

REMEDY OPTION--For a system with ever-expanding storage requirements, the REMEDY drive allows the user to remove the entire 20mb. file and replace it with another. It offers the same capability as the popular Bernoulli Box, but at a fraction of the cost.

Compatibility: The Diskitjr will work in conjunction with almost all other vendor's add-on products. The Diskitjr side-car simply plugs into the jr's 60 pin expansion bus on the side and connects to the drive with a cable pair. It works with Tecmar, Quadram, Impulse, Racore (non-DMA), Microsoft, etc.

PRICES: Terms are COD cashier's check or prepayment by mail (5% discount with order). Add \$15 for UPS 2 day delivery, or \$25.00 for next day air. Prepaid orders or orders with deposits receive first priority.

	65 millisecond access drives		
	Diskitjr 20L	\$595	20 megabyte\$545 as of 6/88
	Diskitjr 30L	\$795	30 megabyte
	35 millisecond access drives		
	Diskitjr 20H	\$745	20 megabyte
	Diskitjr 30H	\$945	30 megabyte
	Diskitjr 40H	\$995	40 megabyte
	Remedy removable drive option	add \$195.00	

SPC has a one year warranty on all items. SPC reserves the right to repair or replace equipment under warranty. A one year warranty extension period is available and will be quoted at time of order.

| SPC also carries the ES Quality Products jrHotShot product line, which  
 | is compatible with SPC products.

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TECMAR INC. (updated 04/02/88)  
 6225 Cochran Road  
 Solon, Ohio 44139 (jrCaptain price updated as of 3/31/88)  
 (216) 349-0600  
 |(216) 349-1009 jrCaptain order line  
 |(800) 624-8560 ext. 403 jrCaptain toll-free order line

| Tecmar has resumed manufacturing the jrCaptain memory sidecar.  
 | They are selling it direct for a price of \$275, plus shipping as of  
 | March 31. Due to the volatility of the price of 256K memory chips,  
 | this price is subject to change on almost a day-to-day basis.

The jrCaptain board provides 512K additional RAM for PCjr, along with power supply, clock/calendar, parallel printer port, and the "Treasure Chest" of software, giving you RAMdisk, video RAM setup, access of the clock and several utility programs, including print spooler, Rolodex(tm), and more.

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True Data Products Updated 04/06/87  
 115 South Main  
 P. O. Box 347  
 Uxbridge, MA 01569 (VISA, MasterCard add 3%)  
 (800)-635-0300, (617)-278-6555

This firm offers a second diskette drive at a price of \$199.95 including case with power supply, adapter, cable and software.  
 | New--3.5 inch (720K) diskette drive, power supply, case, adapter,  
 | cable and software. \$219.95  
 | Adapter, software and cable alone (no drive or case) \$89.95  
 They are also a source of cases for addon drives....  
 Dual half-height case with power supply \$54.95  
 Filler panel for half-height drives 3.00  
 | Hard drive cases \$119.95

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