

	Introductory / Educational					Hobby / Home			Office / Home				Portable		
	Atari 400	Commodore VIC 20	TI—99 / 4A	Timex 1000	Apple II +	Atari 800	Commodore 64	TRS-80 Model III	Apple III	HP 86	IBM Personal Computer	TRS-80 Model II	Epson HX—20	Kay-Pro II	Osborne I
Central Processing Unit (CPU)	6502A 8 bit chip	MOS 6502A 8 bit chip	TMS 9900 16 bit chip	Z80A 8 bit chip	6502 8 bit chip	6502 8 bit chip	6510 8 bit chip	Z80A 8 bit chip	6502A 8 bit chip	HP 8 bit chip	Intel 8088 16 bit chip	Z80A 8 bit chip	CMOS 6501 8 bit chip	Z80A 8 bit chip	Z80A 8 bit chip
Operating System	Atari OS	Com. DOS	TI Custom	Timex OS	DOS 3.3 (CP/M optional)	Atari OS	Commodore custom	TRS/DOS	Apple SOS	HPOS	MS/DOS	TRS/DOS	Epson OS	CP/M	CP/M
Random Access Memory (RAM)	16K	5K, expands to 32K	16K, expandable to 48K	2K (expandable to 64K, outside supplier)	16K (expandable to 48K)	16K (expandable to 48K)	64K	4K (expandable to 48K)	128K (expandable to 256K)	64K (expandable to 576K)	16K (expandable to 512K)	64K	16K (Expands to 32K)	64K	64K
Languages	Optional: BASIC, PASCAL, PILOT	BASIC (Optional: LOGO)	BASIC (Optional: LOGO, PASCAL, others)	BASIC	BASIC (Optional: FORTRAN, COBOL, and many others)	BASIC (Optional: PASCAL, PILOT, others)	BASIC (Options to come: PASCAL, LOGO, PILOT)	BASIC (Optional: COBOL, FORTRAN, PASCAL, others)	BASIC (Optional: many others)	HP BASIC (Optional CP/M can run many others)	Optional: BASIC, COBOL, FORTRAN, and more	BASIC (Optional: COBOL, FORTRAN)	BASIC (Optional languages planned.)	BASIC (Optional: any CP/M language)	BASIC (Optional: any CP/M language.)
Storage	Cassette (88K disk optional)	Tape cassette (170K disk, drive, optional)	Cassette or optional dual disks, 90K per disk	Tape cassette	4 disks, 140K per disk (expandable to 16 disks, 8 megabytes)	Optional disks, 4 maximum, 88K per disk (or cassette)	Optional disks, 4 maximum, 170K per disk	Up to 4 disks (2 built-in), 184K per disk	4 disks, 140K per disk (or Winchester system: 5 megabytes)	Up to 5 disks, 270K per disk	4 disks, up to 380K per disk	1 disk drive, 486K (expandable to 8.4 megabytes)	Cassette	2 built-in disks, 195 per disk	2 disks, 100K per disk, built-in. (Optional double-density, 184K per disk)
Monitor	Home TV (color)	Home TV (color)	Home or TI (color)	Home TV (B + W)	CRT or home TV (color)	Home TV or monitor (color)	Home TV or CRT (color)	Built-in 12" (B + W)	Monotone or color	9" x 12" (B + W)	9" mono. Home TV or color monitor optional.	12" built-in (B + W)	Built-in 1½" x 3½" LCD.	Built-in 9" green monitor	5" built-in B + W (12" green optional)
Display	40 char. x 24 lines	22 char. x 23 lines	32 char. x 24 lines	32 char. x 24 lines	40 char. x 24 lines (expandable)	40 char. x 24 lines	40 char. x 25 lines	32 char. x 16 lines (expandable)	80 char. x 24 lines	80 char. x 16-24 lines	80 char. x 25 lines	80 char. x 24 lines	20 char. x 4 lines	80 char. x 24 lines	52 char. x 24 lines
Price	Basic unit... \$299. Typical system with cassette, programs, language, controllers... \$400-\$500.	Basic unit... \$200. Typical system with 32K RAM, cassette, programs, language, controllers, home TV monitor... \$650	Basic unit... \$1300. Typical full system with 48K memory, disk drives, printer, modem, programs, sound,paddles, home TV monitor... \$3000-\$3300.	Basic unit... \$99. Typical system with cassette, 16K memory, programs, home TV as monitor... \$300.	Basic unit... \$1350. Typical system with 48K memory, 2 disk drives, printer, modem, color monitor, 80-column display, CP/M, programs... \$5000-7000	Basic unit... \$899. Typical system with 48K memory, disk drives, modem, printer, languages, controllers, full-width display... est. \$3525	Basic unit... \$595. Typical future system with disk drives, modem, printer, optional Z80 chip, languages, programs, monitor... \$3600-3900	Basic unit... \$699. Typical system with built-in monitor, 48K RAM, disk drives, languages, modem, printer, programs... \$3145-3375.	Basic unit... \$2995 (128K)... \$3495 (256K). Typical system with 256K RAM, dual disks, modem, printer, languages, programs, input peripherals... est \$7700-8200.	Basic unit... \$1795. Typical system with 576K memory, mini-disks and drive-controller, 12" monitor, plotter, printer, modem, programs, CP/M... \$8400-9000	Basic unit... \$1565. Typical system with 256K memory, dual disks, languages, programs, printer, modem, color monitor, sound...est. \$6700-7000	Basic unit... \$5899. Typical system with dual disks, printer, modem, languages, programs, high resolution graphics...est. \$8000.	Basic unit... \$795. Typical system with disk drive, modem, printer, 32K RAM, cartridge library... est. \$1500.	Basic unit... \$1795. Typical system with 12" monitor, printer, modem, programs, double-density disks, and long-promised display expander... est. \$3495.	
Applications and Limitations	Games, learning. Some data access, rudimentary text editing possible.	Games, learning. Some data access, home finance. Limited text editing with RAM expansion.	Games, teaching, learning. Wide assortment of programs. With expanded memory and storage, does home finance, data access, research, text editing.	Fine low-cost introduction to computers and programming. Limited software available on tapes; special 22-pin interface.	Programming, games, education, data access, home finance, research, word processing, business applications.	Games, education, data access, research, home finances, programming, some text editing.	Music, composing, games. Full home computer potential when promised options are introduced.	Hobby, programming, games, home inventory, data access, research, text editing.	Variety of business, home, scientific, hobby, games, finance.	Scientific, engineering: handles masses of numbers. Also home, personal finance, business, programming, text editing.	Business, home finance, data access, games, programming, music, education	Business, programming, home finance, text editing, and much more.	Data access, research, personal and business use. Built-in battery.	Data access, text editing, research, education, business, programming.	Data access, business, research, education, home finance, programming.
Summary and Notes	Fac-Man, Star Raiders—100 excellent games in all—at popular prices.	Fine for games and music; expandable for some home finance and data access.	A deluxe, 16-bit package. Only the 48K RAM maximum keeps this in the introductory class.	Small, light, and inexpensive, but capable of seemingly endless expansion—for a price.	The pioneers. A hobbyist's dream—300 companies make 15,000 programs.	2,000 games—and it's educational to boot! An established company offers good support to users.	Great for expanding with peripherals—a relatively new machine.	6,200 stores and dealers. Good, reliable hardware and service, but you are locked into Radio Shack's programs and peripherals.	For the businessman — or scientist who likes to play games at home. Good user support.	Good reputation in the scientific community for excellent hardware and support. A respected heavyweight.	The premium product for those who want a business machine that has loads of personal applications.	The original "hobby shop" is going after small business seriously...and has just introduced a color version, with a 16 bit chip. Basic unit... \$4999.	True portability— briefcase-sized, and weighs just 4 pounds. Has built-in adding-tape width printer.	New, limited production. Large-scale output begins in January, 1983. A promising, all-portable, portable machine.	At 24 pounds, the first portable. When the 80-column display arrives, it will be a small, versatile machine.
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