DIGITAL COMPUTERS
INTERFACES · PERIPHERALS
SOFTWARE · CONVERTERS
ANALOG & DIGITAL CARDS
HARDWARE & ACCESSORIES
APPLICATIONS ENGINEERING

Raytheon
Computer
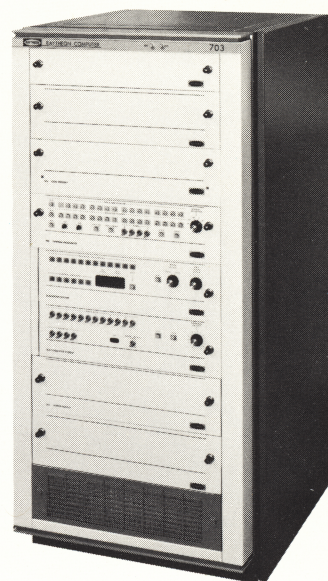
The Raytheon Computer 700 Series of general-purpose computers allows you to make speed/cost trade-offs in hardware without reducing your computer power. Choose the CPU with 900ns, 1.0 μs or 1.75 μs cycle time. Then if your requirements change, change your CPU without any software penalties because the 700 Series is fully software compatible. Programs written for one machine will run on any other machine with no changes. Because of this compatibility, whichever 700 Series computer you select, you have a library of over 400 programs and subroutines to choose from. You can put your Raytheon computer on-line the day it's delivered.
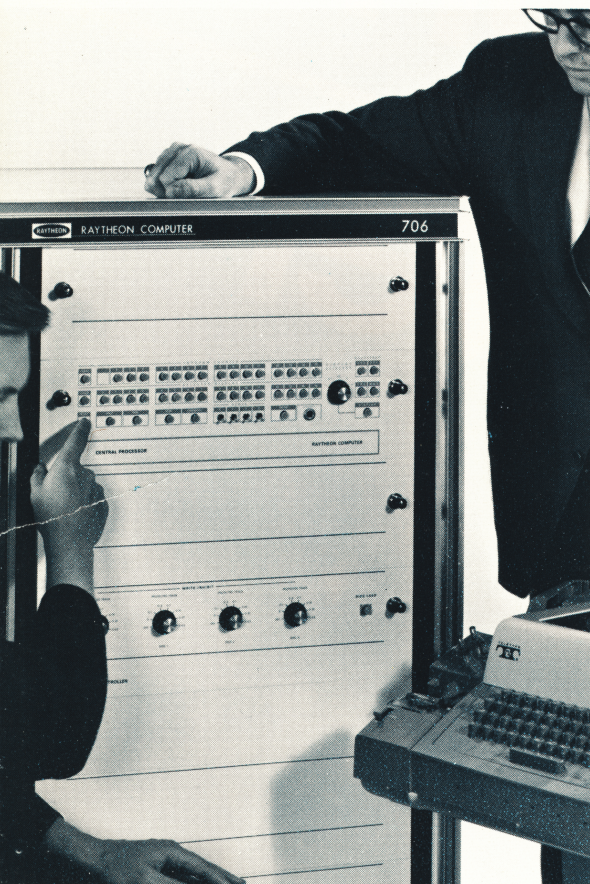
Raytheon 703

The Raytheon 703 Computer is designed for real-time, multi-programming applications where its interrupt system and real-time instructions can be exploited. Hardware/software architecture allows easy expansion from a 4K word processor with ASR 33/35 terminal to a 32K word system with disc and other major peripherals. The 703 has a 1.75 μs cycle time and 74 powerful instructions. The basic price of $12,750 includes 4K memory with ASR 33 terminal and a software package with ASA real-time FORTRAN IV, a real-time monitor, an integrated executive system and the SENSOR hardware diagnostic program.
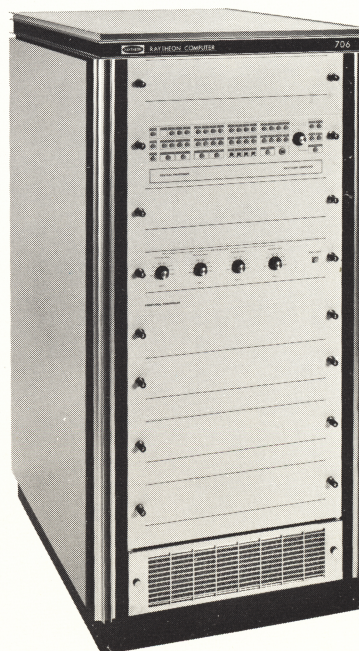
Raytheon 704

The new Raytheon 704 general-purpose computer provides large computer capability and compatibility for less than $10,000. The 704 is instantly useable with more than 400 proven programs and subroutines available off-the-shelf. The basic 704 includes 74 instructions, word and byte manipulation, 1.0 μs full cycle time, a real-time automatic priority interrupt system, direct I/O to the CPU and four addressable hardware registers. The 704 becomes even more powerful by adding a real-time clock, hardware multiply/divide, high-speed direct memory access and other available options. The 704 is expandable from 4K to 32K words of memory. A very useable software package is included with the basic hardware.

Array Transform Processor

The Raytheon Computer Array Transform Processor is fully compatible with our 703, 704, and 706 computers for performing the Fast Fourier Transform, digital filtering and other repetitive data handling processes. It will also perform the Fourier Transform Inverse and other array processing such as Convolution Integral, Complex Multiply, Complex Spectral Magnitude, Clear, Real Multiply, Real Add, Real Subtract, Array Move and Scan.

Raytheon 706

The Raytheon 706 is a 16-bit systems computer developed for multi-program-ming applications. The 706 features a 900ns cycle time word memory expandable from 4K to 32K in 4K increments. Special features include memory protect, hardware bootstrap and parity check. The 706 is systems oriented with both byte and word addressing and manipulation, direct memory access, direct input/output to the central processor and a 16-level priority interrupt scheme. The standard software package includes real-time ASA FORTRAN IV, real-time monitor, X-Ray EXEC operating system, and the SENSOR hardware diagnostic program. The 706 has four addressable registers with one hardware index register. A total of 74 instructions are available. Basic price, $19,000.

Analog Instruments

Raytheon Computer offers a complete line of data acquisition and signal conversion equipment. These instruments include A/D converters, D/A converters, MINIVERTERS™, and various configurations of multiplexers, sample-and-hold amplifiers and other accessory equipment. These units are packaged fully wired and tested, either case-mounted or in connector block assemblies.

Converters

Raytheon Computer offers A/D and D/A converters with resolution ranges from 10 to 15 bits binary. Speeds to 100 KHz are available with capacities up to 16 channels in a connector block assembly or 128 channels when case-mounted.

Miniverters™

The Raytheon Computer MINIVERTERS™ now provide a 16 channel multiplexer, sample-and-hold amplifier and A/D converter in a connector block assembly. These same functions are available with up to 128 channels of multiplexing in a standard 19-inch drawer only 5¼ inches high by 17 inches deep. Converters are available with resolution up to 12 bits and throughput rates of 90 KHz, 135 KHz, 180 KHz and 400 KHz.
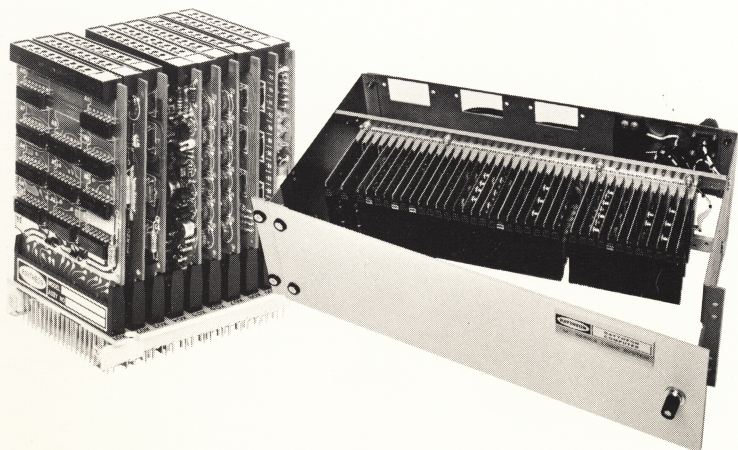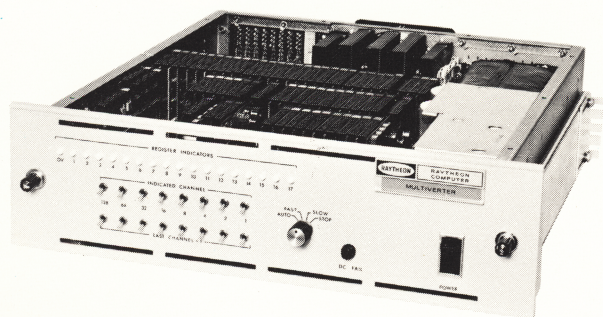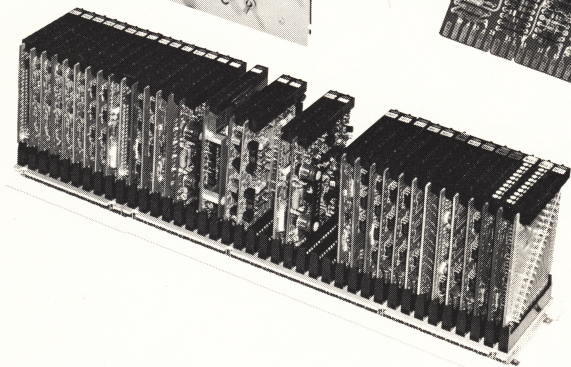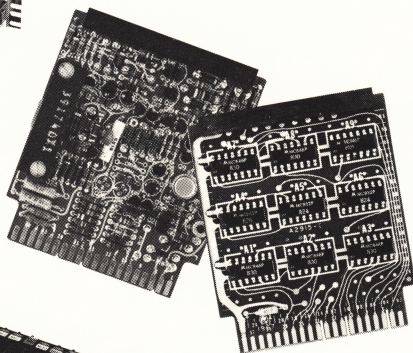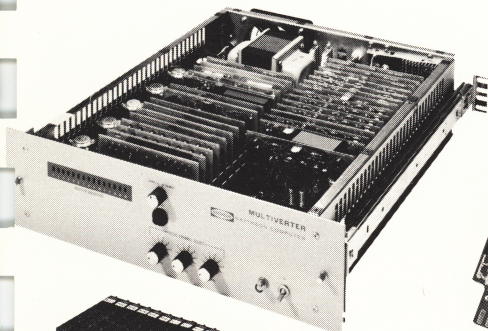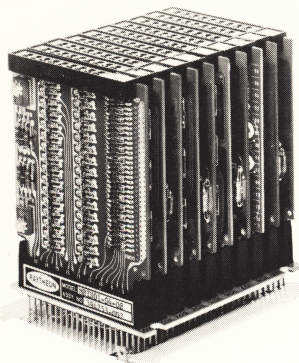
Multiverters®

With our new Multiverter III®, you buy only what you need in interface and signal conversion equipment. Integrated circuit logic cards are added to a connector block assembly to provide a high speed 32 channel multiplexer, sample-and-hold amplifier and a high performance A/D converter. The Multiverter III® provides 15 bit resolution, 100 KHz throughput and low power consumption. It's all contained in less than 200 cubic inches.

Our original MULTIVERTER® has up to 96 input channels with a wide choice of A/D converters to meet your requirements. Resolution is up to 15 bits and overall instrument accuracy is 0.02% ($\pm$½ LSB) of full scale.

Analog and Digital Cards

To tailor your system performance, Raytheon Computer also features ninety accessory analog and digital cards. These cards are available in DTL and TTL for medium and high speed applications. The M-Series IC cards include flip-flops, registers, counters, logic gates, interface, clock and timing, A/D and D/A converters, power supplies and utility boards and accessories.

WORLD-WIDE SALES AND SERVICE

UNITED STATES

HOME OFFICE—Raytheon Computer
2700 South Fairview Street, Santa Ana, California 92704
Phone: (714) 546-7160   From Los Angeles phone: 625-7645
TWX: 910-595-1570

CALIFORNIA
Western District

Raytheon Computer
9550 Flair Drive - Suite 207
Flair Industrial Park
El Monte, California 91731
Phone: (213) 443-7181

Raytheon Computer
363 S. Taaffe, Suite 222
Sunnyvale, California 94086
Phone: (408) 736-2286, 2287

GEORGIA
Southern District

Raytheon Computer
1600 Tullie Circle, NE
Atlanta, Georgia 30329
Phone: (404) 631-0091, 0092
TWX: 810-751-8447

ILLINOIS
Central District

Raytheon Computer
710 Higgins Road
Park Ridge, Illinois 60068
Phone: (312) 692-3325
TWX: 910-687-2266

MASSACHUSETTS
Northeastern District

Raytheon Computer
Box 184 - Fourth Avenue
Burlington, Massachusetts 01803
Phone: (617) 272-1636
TWX: 710-332-0313

TEXAS
West Central District

Raytheon Computer
6420 Hillcroft, Suite 215
Houston, Texas 77036
Phone: (713) 771-4449, -5851
TWX: 910-881-1795

WASHINGTON, D.C. Area
Mid-Atlantic District

Raytheon Computer
1316 Fenwick Lane, Suite A
Silver Springs, Maryland 20910
Phone: (301) 587-9110
TWX: 710-825-9762

INTERNATIONAL

AUSTRALIA

Datamatic Pty. Ltd.
90 Alexander Street
P.O. Box 171
Crow's Nest, N.S.W. 2065, Australia
Phone: 43-3333, 43-7125

BELGIUM

Koopman and Company Electronica, N.V.
13 Avenue des Gaulois
Brussels, Belgium
Phone: 02. 35.80.65
Telex: 846-23616

DENMARK

Aage Hempel
Longangstraede 16
1468 Copenhagen, Denmark
Phone: 01156801
Telex: 5231

ENGLAND

A. C. Cossor Limited
Data Systems Division
Harlow, Essex, England
Phone: Harlow 26862
Telex: 851-81228

Raytheon Overseas, Ltd.
Shelley House-Noble Street
London E.C. 2, England
Phone: 01-606-8991
Telex: 851-25251

FRANCE

Gamsi
3 Rue du Faubourg Saint-Honore
Paris 8, France
Telex: 842-22489 F

GERMANY

Dynatec Datenverarbeitung-
Elektrotechnik Vertriebs—GmbH.
Oberkassel Hansa Allee 159
No. 4 Dusseldorf, West Germany
Phone: Dusseldorf 59 10 71
Telex: 858-4389

HOLLAND

Koopman and Company Electronica N.V.
Post Box 6049 (Stadhouderskade 6)
Amsterdam, Holland
Phone: 020-182821
Telex: 84411273, Cable: KJOEBMAND

INDIA

Greaves & Cotton & Co., Ltd.
2 Palace Road, P. B. No. 13
Bangalore 1, India
Phone: 23873/26773, Telex: 043-365

ISRAEL

Agentex, Ltd.
3 Bograshov Street, T.A. Box 3308
Tel-Aviv, Israel
Phone: 233968
Cable: AGENTEX TELAVIVJAFFO

ITALY

Elettronucleonica
Piazza de Angeli 7,
20146 Milano, Italy
Phone: 463 520/286

JAPAN

Japan Radio Co., Ltd.
25, Sakuragawa, Shiba
Nishikubo, Minatoku,
Tokyo, Japan
Phone: (03) 591-3451
Telex: 781-0222-3068

LEBANON

Triad International Marketing Co.
P.O. Box 4984
Beirut, Lebanon
Phone: 230091 or 230093
Telex: TRICORP, Cable: TRIMARK

NORWAY

Metric A. S.
P.O. 80 Bekkelagshgd
Oslo, Norway
Phone: (02) 28 26 24
Telex: Metrictrade Oslo

SOUTH AFRICA

Aerosignals Pty. Ltd.
P.O. Box 957
Johannesburg, South Africa
Phone: 836-6828/9
Telex: 43-0209JH, Cable: AEROSIGNALS

SPAIN

Neotecnica, S.A.E.
Marques de Urquijo 44
Madrid 8, Spain
Phone: 248 96 02
Cable: NEOTECNICA

SWEDEN

Scandia Metric AB
Dalvagen 12
Fack 171 03
Solna 3, Sweden
Phone: 08/82 04 10
Telex: 845/10766 Metricade Stockholm

SWITZERLAND

Computer AG Zurich
Badenerstrasse 551
8048 Zurich Postfach 145
Switzerland
Phone: (051) 277-325
Telex: 845/52 039 PULP CH

From other countries contact:
Raytheon International
141 Spring Street
Lexington, Massachusetts 02173
Phone: (617) 862-6600
TWX: 710-324-6568

RAYTHEON

2700 South Fairview St. Santa Ana, Calif. 92704