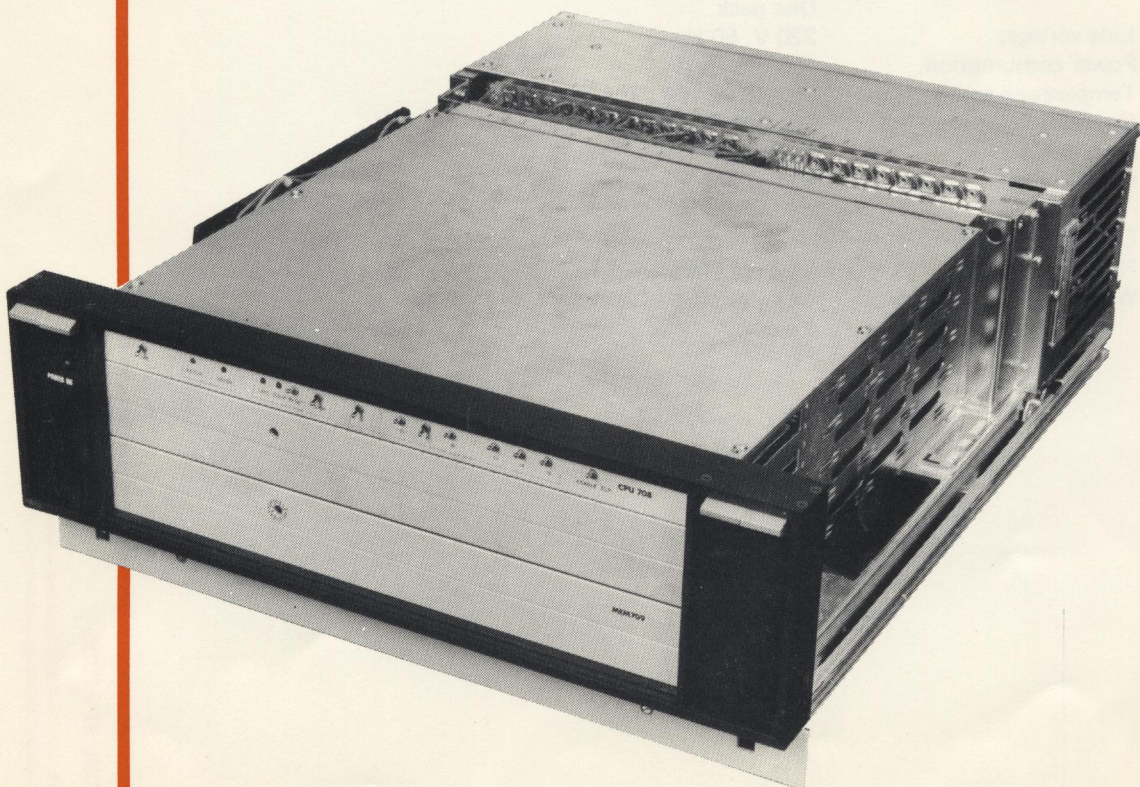




RC 3803/3608/3609

**Central Unit
Memory Modules**

- 16 BIT WORD LENGTH
- MEMORY BYTE PARITY CHECK
- 32 KB OR 64 KB MEMORY MODULES
- DMA CHANNEL
- REAL TIME CLOCK
- AUTOMATIC POWER RESTART



GENERAL

The RC 3803 is a 16-bit, four accumulator, microprogrammed computer.

The CPU provides indexed, base page, relative and indirect addressing modes and can directly address 128 Kbytes of memory. Each word in the memory has two parity bits which are checked during each memory read cycle and generated during memory write cycles.

The wide capabilities of the RC 3803 is obtained by special instructions for improved utilization of the RC 3600 Software Systems. For instance, special instructions are included for direct fetch and store of single bytes and for move of byte strings in the 0-64 Kbytes memory area. Furthermore a number of functions that usually are performed by software is microprogrammed in the RC 3803 thus increasing the performance.

A direct memory access (DMA) channel is provided to enable rapid data transport between memory and peripheral devices.

Sixteen levels of interrupts are provided to allow extensive peripherals management.

The real-time clock feature of the CPU generates a sequence of pulses that is independent of the timing of the processor.

Memories are available in two modules for the 3803 CPU. RC 3608 is a core memory with a capacity of 64 Kbytes, 750 ns, and RC 3609 is a core memory with a capacity of 32 Kbytes, 650 ns.

SPECIFICATIONS

Memory cycle time:	650 or 750 nanoseconds per 16-bit word (18 bit with parity)
Memory capacity:	32-128 Kbytes, achieved by any combination of the modules RC 3609 (32 Kbytes) and RC 3608 (64 Kbytes)
Max. DMA transfer rate:	1.1 Mbytes per second
Standard features:	Real time clock Power monitor Automatic restart
Program load features:	Programs may be loaded from one of the following medias: 9 track magnetic tape 8 channel paper tape 80 column punched cards (for RC 3671 C or RC 3672 C) Flexible disc Disc cartridge Disc pack
Line voltage:	220 V, 50 Hz
Power consumption:	700 W
Temperature ambient:	10 - 40 °C (50 - 104 °F)
Humidity relative:	20 - 80% (non-condensing)
Heat dissipation:	600 kcal/h (2400 BTU/h)
Mounting:	19" cabinet mounting

DIMENSIONS

Height:	35.4 cm (14 inches)
Weight:	44 kg (96 lbs)