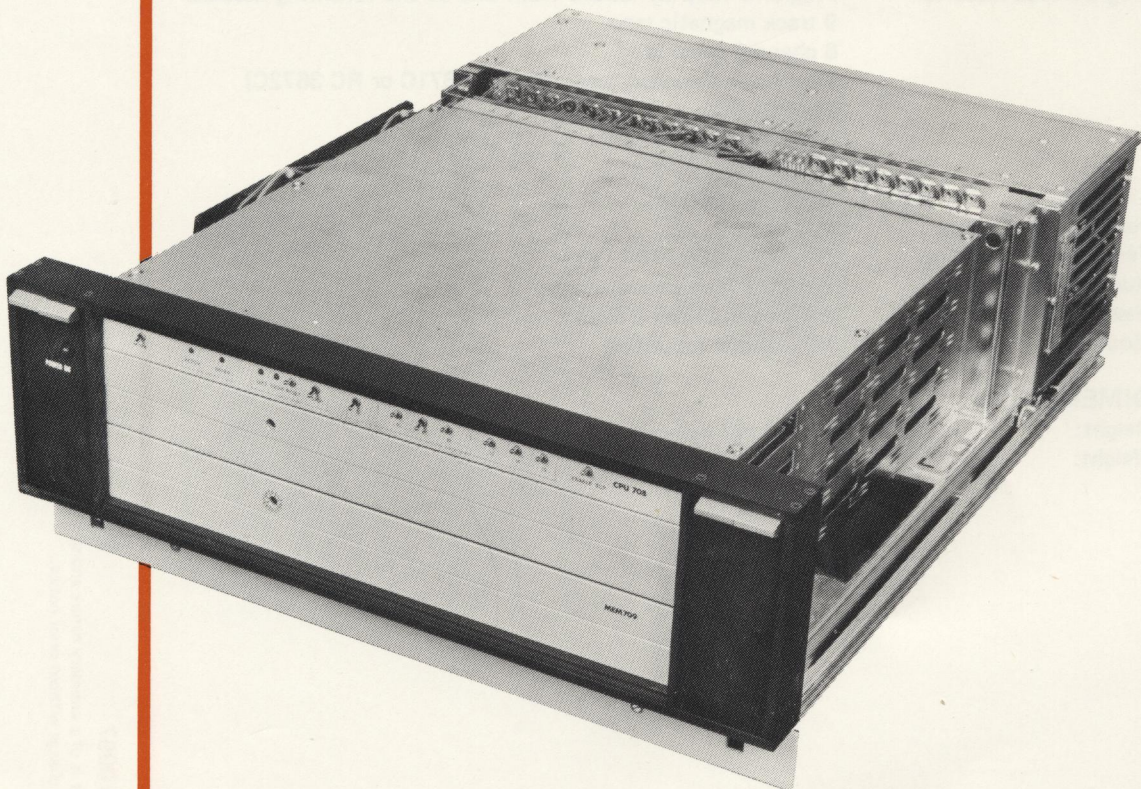




RC 3603/3608/3609

**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



GENEREL

The RC 3603 is a 16-bit, four accumulator, microprogrammed computer.

The CPU provides indexed, base page, relative and multilevel indirect addressing modes and can directly address 64 Kbytes of memory. Each word in the memory is 18-bit in length, of which the two last bits are parity bits, checked during each memory read cycle and generated during memory write cycles.

The multiprogramming capability of the RC 3603 CPU is increased by special stack manipulation, "push-pop stacking", which provides an expandable area of temporary storage either to "push" objects onto or "pop" objects off (to a new location). A powerful feature, if, for instance, several programs are to access the same data, subroutines or other common variables.

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 RC 3600 CPU generates a sequence of pulses that is independent of the timing of the processor.

Memories are available in two modules for the 3603 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 K bytes (1 x RC 3609) 64 K bytes (1 x RC 3608 or 2 x RC 3609) 96 K bytes (1 x RC 3608 + 1 x RC 3609) 128 K bytes (2 x RC 3608)
Max. DMA transfer rate:	1.1 M bytes 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 3671C or RC 3672C) Flexible disc Disc cartridge Disc pack
Line voltage:	220 VAC, 50 Hz
Power consumption:	400 W
Temperature ambient:	10 - 40 °C (50 - 104 °F)
Humidity relative:	20 - 80% (non-condensing)
Heat dissipation:	345 kcal/h (1375 BTU/h)
Mounting:	19" cabinet mounting

DIMENSIONS

Height:	17.7 cm (7 inches)
Weight:	22 kg (48 lbs)