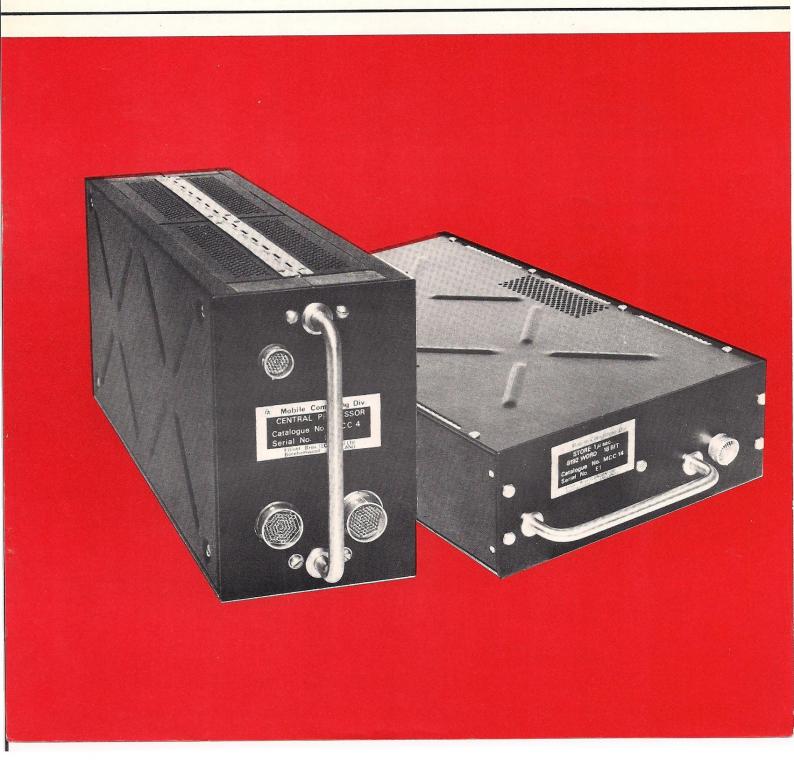
Elliott MCS920 C Computer

A compact, ruggedised, high-speed digital computer with silicon integrated circuits, giving an exceptionally reliable performance over a wide temperature range. Combines in one system high capacity for rapid handling of complex real-time scientific calculations with the facility for a large number of peripheral devices to time-share the processor or storage bank. Designed for extension to multi-computer, multi-access systems by the addition of interface control, data routing and highway linking units.



Specification

CONFIGURATION

Central Processor (MCC4)

Store (MCC14)

17" × 10" × 4" high

Dimensions: (approx.)

 $17'' \times 5'' \times 7\frac{1}{2}''$ high

 $(43.5 \text{cm} \times 12.7 \text{cm} \times 19.1 \text{cm})$

Volume: (approx.)

0.37 cu. ft.

Weight: (approx.)

16 lb. (7-2 kg.)

0.4 cu. ft.

23 lb. (10·3kg.)

Two stores can be assembled together

with an adaptor to form a single unit

approx. $17'' \times 10'' \times 7\frac{1}{2}''$ high (43.2cm × 25.4cm × 19.1cm.)

 $(43.2cm \times 25.4cm \times 10.2cm)$

Power Consumption:

50 watts (approx.)

(a choice of power supply units for

DC, 50 Hz and 400 Hz inputs is available).

Type:

general purpose binary

digital computer operating

in parallel mode.

110 watts (approx.)

random access, ferrite core extendable in 8192-word or 16,384-word modules to a total capacity of 131,072 words,

directly addressable.

Store Cycle Time:

1 µsec.

Word Length:

18 bits.

Divide

Number representation:

negative numbers stored as two's complement

Order Structure:

single address.

Order Code:

up to 67 functions.

Interrupt Facilities:

3 levels of priority.

Operating Speed:

Add 2.2 µS

17.2 µS

Subtract 3.0 µS

Multiply 9.0 µS (gross times, including accessing

the store and incrementing the Sequence Control Register).

Environment:

Operating temperature range: 0°C to +55°C Non-derangement temperature: -40°C to +85°C (In general, meets DEF-133, Sections A2 and L2)

Input/Output Equipment available:

Paper Tape Readers (250 or 500 ch/sec.) Paper Tape Punch (110 ch/sec.) Teleprinter

Magnetic tape store

Magnetic drum backing store (8-4 megabits)

Program loading unit

CRT displays

Keyboards

Digital plotter

Matching unit for Elliott 4100 peripherals

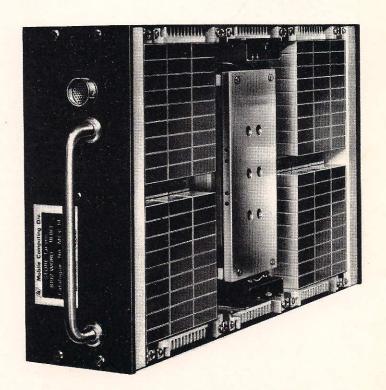
Full specification and further details available from:

Mobile Computing Division, Elliott Bros. (London) Ltd., Elstree Way, Borehamwood,

Herts.

Tel: 01-953-2030





8192-word store unit with cover plate removed.