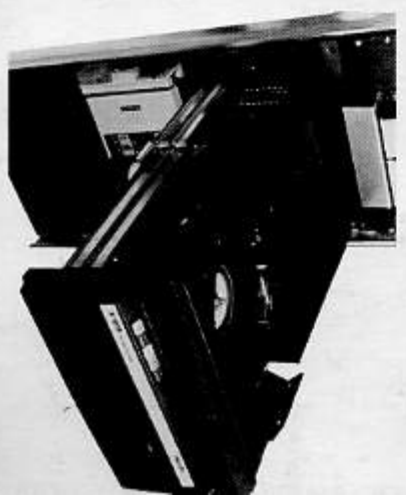
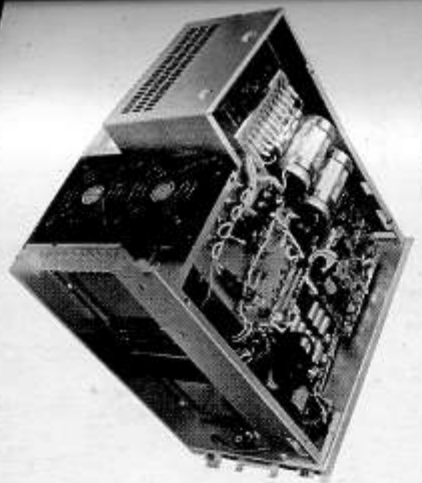


Main features

- ASYNCHRONOUS GENERAL PURPOSE BUS
- SINGLE CARD MICROPROGRAMMED CPU
- INTEGRATED CONSOLE CONTROL UNIT
- CYCLE SPEED OF 1.2 OR 0.7 MICROSECONDS
- MEMORY MODULES OF 8 OR 16K WORDS
- MEMORY CYCLES INTERLEAVING
- MODULAR SYSTEM
- 16-BIT WORD ORIENTED
- 16 GENERAL PURPOSE REGISTERS
- MEMORY MANAGEMENT UNIT (P857M), 2K WORD PAGE SIZE
- FLOATING POINT PROCESSOR (P857M)
- PROGRAMMABLE REAL TIME CLOCK
- DIRECT, INDIRECT, INDEXED, INDEXED INDIRECT ADDRESSING
- 63 INTERRUPT LEVELS
- EXTERNAL REGISTER TRANSFERS
- HARDWARE MULTIPLY/DIVIDE, DOUBLE LENGTH ARITHMETIC
- AUTOMATIC STACK HANDLING
- REAL TIME CLOCK (20 MS, MAINS)
- INTEGRATED V24 SERIAL CONTROL UNIT
- POWER FAILURE DETECTION WITH AUTOMATIC RESTART
- MICRODIAGNOSTICS
- LOW AND HIGH SPEED DATA CHANNELS
- INTERFACES FOR INDUSTRIAL EQUIPMENT
- DATA COMMUNICATION
- POSSIBILITIES TO CONNECT ALL STANDARD PERIPHERALS
- SOFTWARE PACKAGE INCLUDES:
 - STAND ALONE SOFTWARE
 - BASIC AND BASIC REAL TIME MONITORS
 - DISC AND DISC REAL TIME MONITORS
 - MULTI APPLICATION MONITOR (P857M)
 - SMALL REAL TIME MONITOR
 - CASSETTE OPERATING MONITOR
 - MONITOR EXTENSION FOR DATA COMMUNICATION
 - ASSEMBLER, FORTRAN COMPILER, BASIC, FACT, LINKAGE EDITOR, OVERLAY LINKAGE EDITOR, CASSETTE EDITOR, UPDATE PACKAGE, LINE EDITOR, DEBUGGING PACKAGE, HARDWARE TEST PROGRAMS

P856M/P857M System Handbook



This handbook is one of a series of manuals which covers all aspects of the P856M and P857M mini computer system. It is intended to provide general information with respect to the system in the form of short descriptions of the component units and peripheral devices which comprise the system.

Because of the flexibility of the system it is possible to include non-standard and customer designed equipment within any system and where such possibilities exist the connection facilities available have also been generally described. A user should however refer to the more detailed publications within the series before using such facilities.

Great care has been taken to ensure that the information contained in this manual is accurate and complete. Should a user, however, find any errors or omissions, or wish to suggest improvements, he is invited to write his comments on the sheet provided at the end of this book and send it to:

Manual Writing Small Computers
at the address on the opposite page.

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