

PHILIPS OEM MARKETING

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PHILIPS

P850 central processor

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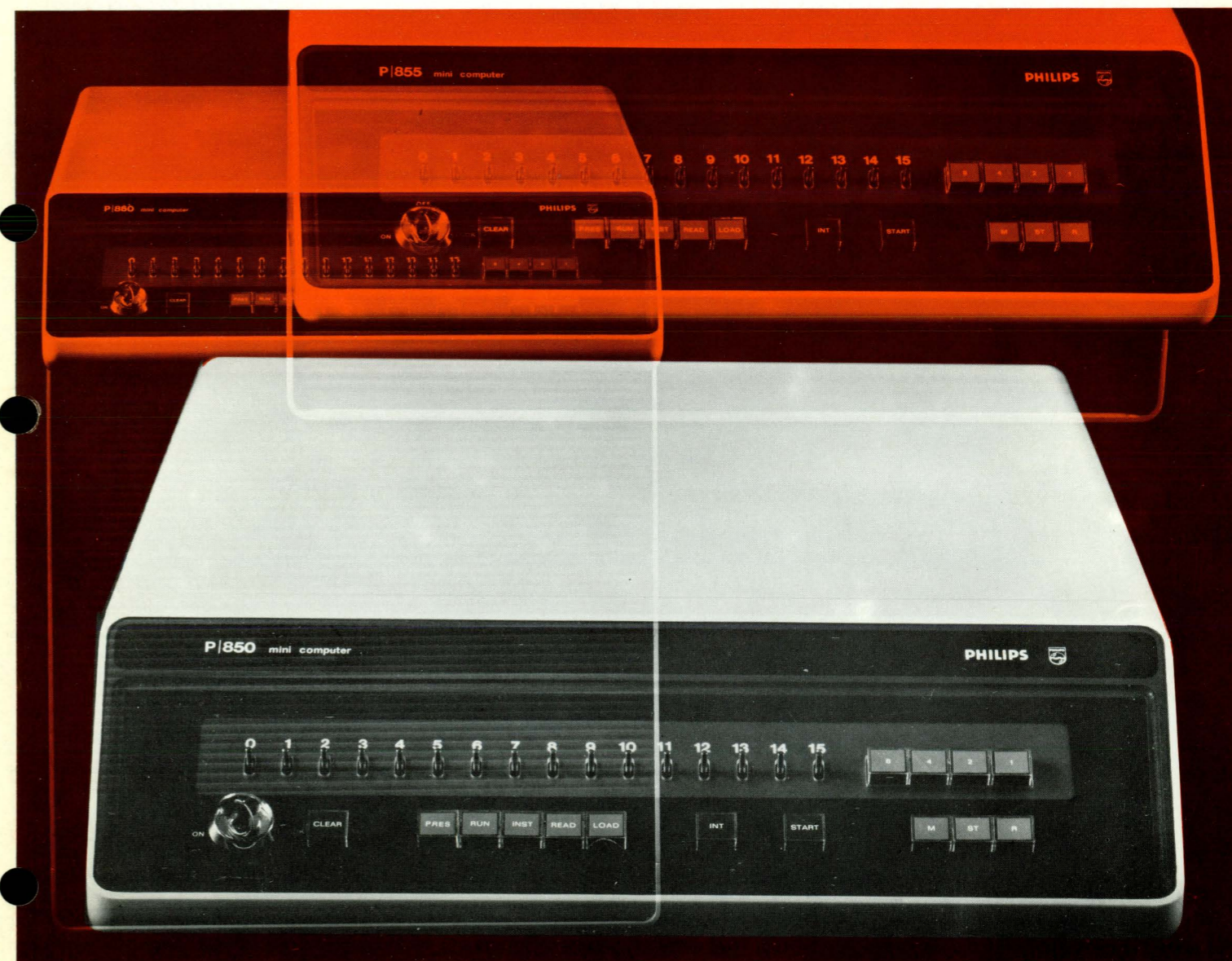
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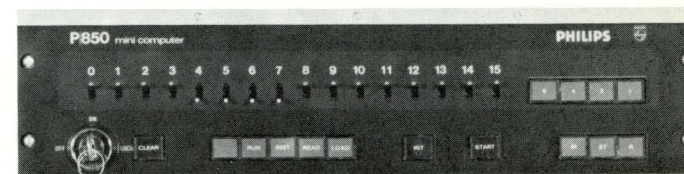
data systems

the price/performance leader

The P850 is the smallest of the Philips mini computer family and it sets a new standard for price/performance ratios. No other mini computer at this price can boast of real-time clocks, digital and analog I/O systems, a wide range of peripherals, its own assembler, power - monitor - with - automatic - restart feature, and a range of control panels, amongst other features.

It is available as a rack-mountable or stand-alone version, it operates in industrial environments and it is a very interesting computer.

The P850 starts with a store size of 500 16-bit words. This is expandable in modules of 500 words up to 2k. The basic version can hold 500 or 1k words and the extended version can hold the whole store range in its extra height. Furthermore each version is available as a rack-mountable model or a stand-alone model. Memory modules and the power units are both available separately for inclusion with other systems. This basic flexibility makes the P850 a range within a range.



However, the exterior is not the only important thing. The performance really matters. To ensure this performance, and also reliability, all versions use TTL and medium scale integration, such as is used on many large computers. The cycle time is 3.2 microseconds for a full 16-bit word, which exceeds the requirements for many applications.

Input and output are also very important. In standard form, the following peripherals can be easily attached to the P850:

- Selection of I/O typewriters.
- Punched tape reader and two punches.
- Character display unit.
- Plotter.
- Two line printers.
- Card reader.
- Magnetic cassette tape unit.

Special equipment can also be easily attached by means of the following interface equipment:

- Digital I/O system.
- Analog/digital system.
- Blank pre-drilled PC cards.
- Synchronous d.c. control line.
- Asynchronous medium speed d.c. control line.
- Asynchronous multiple low speed d.c. control line.

The ultimate ruler of performance is the software, which is extremely good for such a small machine. The executive system includes a bootstrap loader, a program loader, I/O routines, interrupt handling

routines, arithmetic routines and others. There is also a stand-alone assembler which outputs in relocatable object code, and a stand-alone update package which can update object libraries, and source programs on a line basis.

Two important options are the real-time clock and the power - monitor - with - automatic - restart. This latter feature senses power drops and saves CPU status before power disappears. It will restart when power returns to normal. A similar halt (and restart) will occur if the memory temperature goes outside the range 0/45° C.

Three control panels are available with this machine; a mini panel which can be used in RUN or IDLE mode; the full control panel which can load data and display specific memory locations, among other things; and a full, disconnectable panel available with the rack-mountable models. The advantage of the last option is that several machines can be set up to operate under one control panel.

The price of the P850 is very low. For quantity purchasing there is a very competitive discount and it still comes with the world-wide back-up of Philips.