

# DATAPoint 5500 ADVANCED BUSINESS PROCESSOR



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The Datapoint 5500 system is the most powerful processor in the Datapoint line. Designed to provide the user with a compact and powerful processing installation, the 5500 rivals many mid-size business computer systems in terms of processing speed and facilities. The 5500 system offers users a practical alternative to a traditional central computer, or it can be used to give more processing power to a remote dispersed processing system. Its abilities range from rapid execution of compiler languages such as COBOL and RPGII to providing processing power for a multi-terminal DATASHARE system.

The instruction set for the 5500 system contains all of the instructions used in the Datapoint 1100 or 2200 systems, providing complete upward programming and input-output compatibility. In addition, the processor provides: higher operating speed, double precision arithmetic, indexing and basing, segmented and protected memory, and additional registers.

The processor provides the basic processor functions for this system, and includes a keyboard, display, dual cassette decks, and 48K of user program memory (in addition to the resident system memory).

## Functional Characteristics

### Processor:

- 2 sets of 8, 8-bit program accessible registers
- 16 deep pushdown stack
- Special 4-bit instruction modification register
- Multi-byte (string) instructions
- Address manipulation instructions
- High speed parallel I/O System
- Block transfer instructions

### Keyboard:

- Standard typewriter, 55 keys
- 11 Key numeric pad
- 5 control Keys
- Audio tones

### Video Display:

- 7x3.5" viewing area
- 80 columns by 12 rows,
- 960 Character positions
- Upper and lower case plus special characters
- 5x7 dot matrix for high readability
- Programmable display memory allows generation of 128 characters under program control.
- High speed character display

### Cassette Tapes:

- Standard Phillips Cassettes
- 7.5 inches per second speed
- Rewind
- Write forward of read forward
- Slew forward & reverse
- Search forward and reverse mode
- Approximately 120,000 Characters Storage per tape side
- Completely Processor controlled

### Memory:

- 16K reserved for system memory
- 48K user memory
- 0.8 microsecond access
- Parity checking
- Parity bit
- Memory allocation
- Memory protection

## Physical Characteristics

### Equipment Dimensions:

- Width: 18.5 in. (47 cm)
- Height: 9.6 in. (24.5 cm)
- Depth: 19.6 in. (49.9 cm)
- Weight: 47 lbs. (21.3 kg)

### Power Requirements:

- 115 VAC, 50 or 60 Hz
- (230 VAC, 50 or 60 Hz optional)

### Environment:

- 32 to 122 degrees F
- (0 to 50 degrees C)
- 40 to 60% relative humidity, non-condensing

## Model Codes

- 5548 Datapoint 5500, 48K User Memory, 115 VAC, 50 or 60 Hz
- 5163 230 VAC, 50 or 60 Hz Power Option