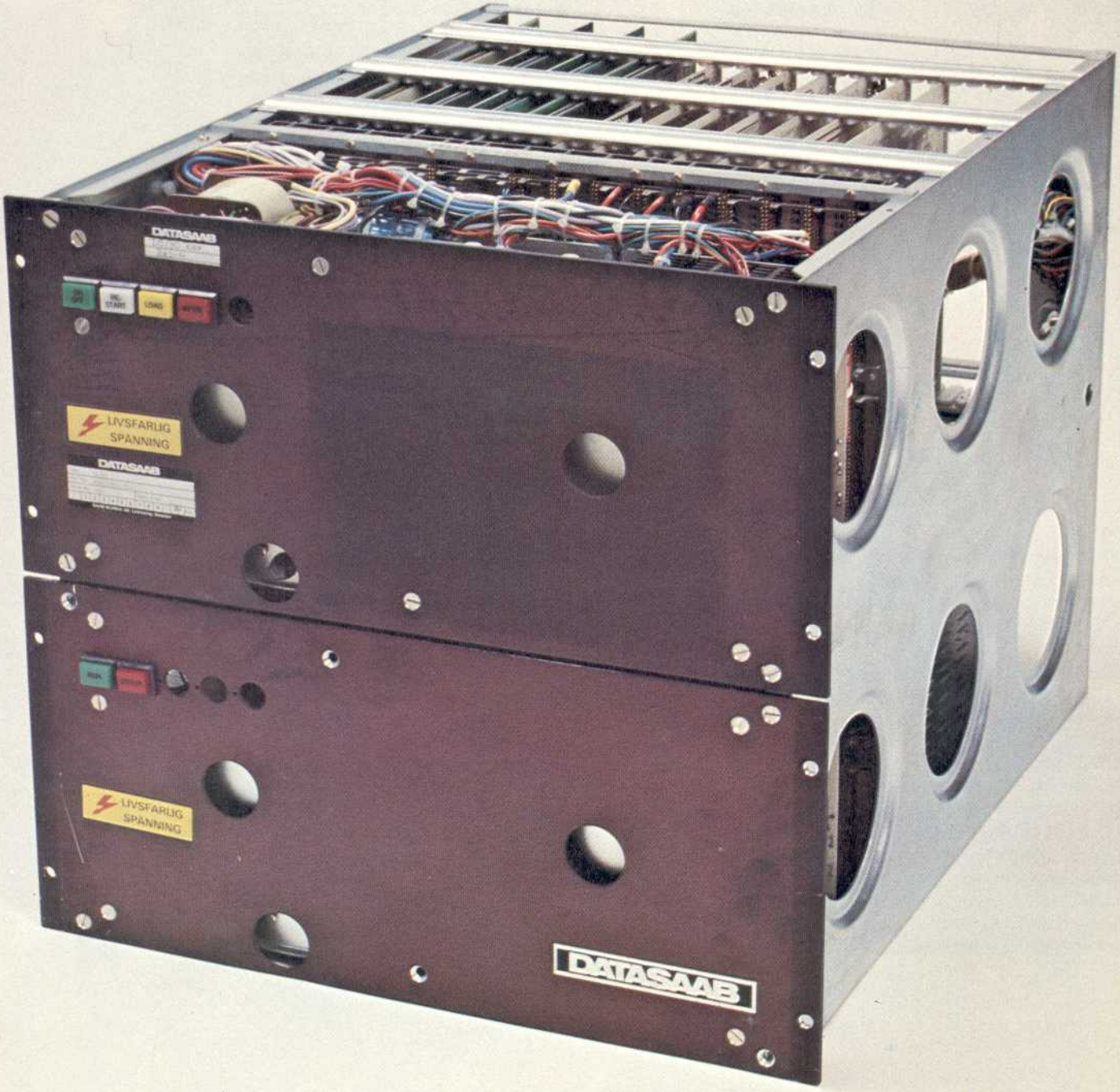
COMPUTER 5030



DATASAAB

Computer 5030

Technical Characteristics

Max. storage capacity	128 K octets
Format	8 and 16 bits
Cycle time	1.0–1.2 micro-seconds
Power supply	Connected to mains
Power requirements	310–720 W
Weight	50 kg
Dimensions (weight ×depth×height)	482×586×443 mm

General

Computer 5030 is a member of the computer family designed for general-purpose processing and to control and supervise Datasaab terminal systems.

High computer performance provides control of up to 20 work stations, secondary storage media such as half inch tape, cassette tape, disk and flexible disk and high performance data communications.

The computer's instruction set and the use of the DIL programming language, specially developed for terminal applications, enables maximum utilization of storage space effectively cutting overall storage requirements to a minimum.

Computer 5030 comprises:

- Central Processing Unit
- Input/Output Channel
- Power Supply
- 19" chassis including front plate.

Peripheral equipment is connected over controllers or adapters.

The following modules can be located in the computer:

- Four Storage Module Boards 5233 with a total of 32 K octets. Extension units enable expansion up to 128 K octets.
- One Input/Output Controller
- Two Local Bus Adapters
- DSA Channel 5471
- Storage Protection 5256
- 12 1/4 boards or 6 3/4 boards for adapters, transmission adapters, interval timers etc.

Different casings are available for Computer 5030 depending on extension requirements.

Function

- The instruction set comprises 80 operations
- Binary arithmetic according to the twos complement method.
- The storage consists of 8 K octet modules. It is provided with manually activated write-protection.
- Stored data is not lost in conjunction with a power failure.
- The computer can be supplemented by a Direct Storage Access Channel (DSA) 5471.
- Storage Protection 5256 is available as an additional module. This prevents unauthorized writing/reading and is controlled by the program.
- Read only storage module for program loading is standard.
- Transfer between the computer and peripheral units is program controlled and is carried out in interrupt mode.
- Eight of the 16 general registers are used in conjunction with program interruption.
- Transmission adapter for synchronous/asynchronous data transmission of up to 9 600 bits/s.

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