Introduction
HITAC 10 is a general purpose digital computer designed mainly as a systems computer dedicated to real-time data acquisition, reduction and analysis, etc. Also, HITAC 10 is designed as a stand-alone, personal computer for scientific engineering.
HITAC 10 provides low cost and high performance, portable compact size, flexibility and ease of application.
Input/output facility of HITAC 10 is very flexible, accommodating a wide range of peripheral equipment.
Over 50 instruction repertory and software systems are useful and powerful for general data processing applications.
**General**
16-bit plus parity, single address, fixed word length.
Fully parallel, two’s complement arithmetic.
Basic 4,096 words core memory expandable to 32,768 words (4,096/8,192 words in basic console).
1.4 microseconds memory cycle time.
Desk-top and rack mountable.
TTL integrated circuit.
Over 50 powerful instructions.
Power failure protection.
Page addressing (512 words per page).
Single-level indirect addressing and optional indexing.
Hardware multiply and divide option.
Double-precision arithmetic option.

**Input/Output**
Up to 64 channels for program controlled I/O bus facility.
Direct memory access standard with one-cycle and three-cycle data break facility.
Program interrupt facility.
Wide range of peripheral devices.

**Software**
Assemblers and Utility Package
FORTRAN
Calculator
Diagnostics

**Specifications**

**Dimensions**
Height : 11.8 inches (300 mm)
Width : 17.7 inches (450 mm)
Depth : 25.6 inches (650 mm)

**Weight**
108 pounds (49 Kg)

**Power requirements**
Source : 115V ±10%, 50 to 60 Hz, single phase
Consumption : 640W

**Environmental conditions**
Temperature : Operating 5 to 35°C
Humidity : Operating 35 to 85%

**Applicable to basic console with all options excluding I/O device.**
* Includes Power Supply

**Hardware Multiply and Divide options**

**Options and Peripherals**
HITAC 10 can be connected to various types of input/output equipment and optional features

**Options**
H-P1610-11 Extended Instruction Option
H-P1610-2 Peripheral Expansion Mount
H-P1610-21 Memory Expansion
H-P1610-23 Power Failure Option
H-P1610-25 Tape Reader Controller
H-P1610-26 Tape Punch Controller

**Peripherals**
H-8226-2 High-speed Photo Tape Reader (500 cps)
H-8227-2 High-speed Tape Punch (110 cps)
H-1613-1, 2, 3, 4 On-line Analog Data Processing Equipment.
8 or 16-channel analog inputs, 1-channel AD converter, up to 2-channel DA converter, up to 2-channel digital inputs, and 1, 2 or 4-channel digital outputs
External mass memories and other peripherals are under development.

**Software**

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