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Core Memory Module, Saturn V



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8 Images

This is a core memory module, unflown, from a Launch Vehicle Digital Computer, part of the guidance system for the Saturn V rocket. The computer was mounted on the inside of the Saturn V instrument unit (IU), above the Third Stage and below the payload. It processed information from the IU's Inertial Measurement Unit (IMU) to give commands to keep the rocket on a desired course. The memory module consisted of small doughnut-shaped "cores" of magnetic material. The magnetism of the cores indicated the storage of the binary digits one or zero. The module, along with the Launch Vehicle Digital Computer in which it was installed, was built by the IBM Corporation.

NASA transferred this to the Museum in 2011.

Display Status

This object is not on display at the National Air and Space Museum. It is either on loan or in storage.

Object Details

Country of Origin

United States of America

Type

INSTRUMENTS-Computers, General Purpose

Manufacturer

IBM Corporation

Dimensions

3-D: 16.5 × 13 × 14.9cm (6 1/2 × 5 1/8 × 5 7/8 in.)

Materials

Non-Magnetic White Metal

Plastic

Fiberglass

Silicone

Copper Alloy

Uncharacterized Foam

Adhesive

Paint

Ferrous Alloy

Ink

Inventory Number

A20210580000

Credit Line

Gift of the U.S. Space & Rocket Center

Data Source

National Air and Space Museum

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Admission is always free.

Open daily 10:00 am – 5:30 pm

National Air and Space Museum

650 Jefferson Drive SW
Washington, DC
202-633-2214

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Free Timed-Entry Passes Required

Steven F. Udvar-Hazy Center

14390 Air and Space Museum
Parkway
Chantilly, VA 20151
<https://maps.app.goo.gl/znjqjyjsdfvrjmnu9>
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