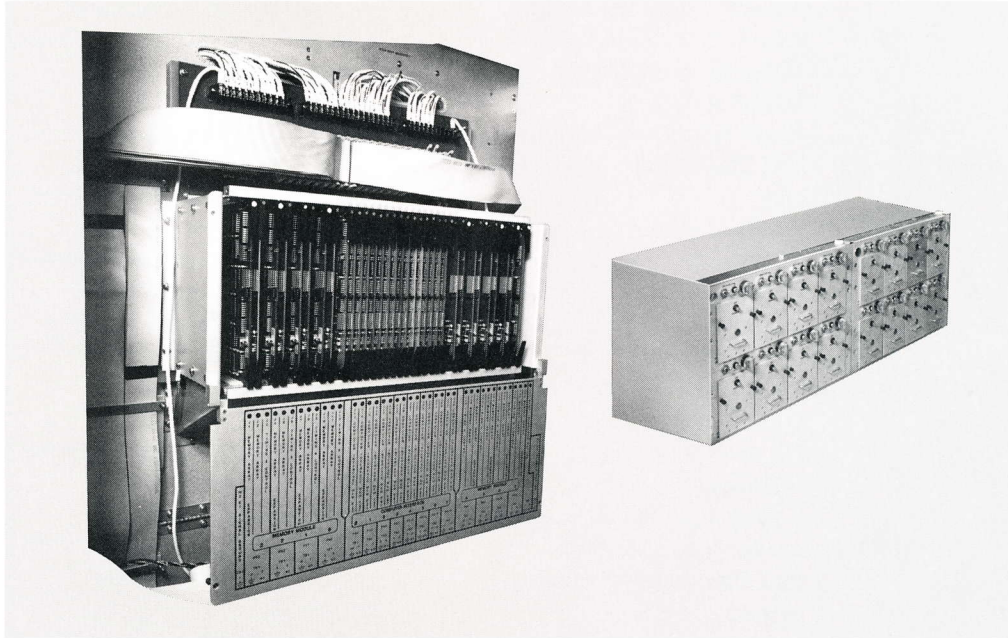# Solid State Memory (SSM)

FA-10183

UNISYS

- 128K 32-bit words
- Built-in RFDU interface and MM17 switch
- Replacement for core memory module (MM), central memory access module (CMA), and interface switch module (ISM)
- Solid state static RAM memory
- Provides up to 8 memory modules and up to 8 IOPB interfaces to a multiprocessor system

Features

Physical Characteristics

- Primary power:
  — 98-132 VAC, 57-63 Hz, 3.5 amp nominal
  — Supplied by existing PCAB equipment outlets
- Environmental:
  — Temperature operating - +10 to +50 degrees C
  — Temperature non-operating - -50 to +70 degrees C
  — Humidity operating - 10 to 50 percent
  — Humidity non-operating - 0 to 100 percent
  — Altitude operating - 0 to 10,000 feet
  — Altitude non-operating - 0 to 50,000 feet
- Weight:
  — Power supply chassis - 45 pounds (each)
  — Memory chassis - 75 pounds
- Mounts in either front or rear section of PCAB
- Multi-layer PC assemblies (4 types)
- Power supply chassis (2 required)
  — 8 pluggable, interchangeable modules per chassis
  — EMI filtering of primary power
  — Separate control, fusing, and indicators for each module

Functional Characteristics

- Configuration contains:
  — 8 - 16K memory modules
  — 8 - IOPB compatible interfaces
  — 1 - RFDU interface
  — 16 - independent +5 VDC power supplies
- 128K words, expandable to 8 megawords
- Compatible with IOPB/RFDU interfaces
- Read or write cycle - 350 nsec
- Read memory
  — First access - 350 nsec
  — Additional access - 200 nsec each read
- Write
  — Half or whole word - 350 nsec
- Replace - half or whole word - read/write cycle
- Address parity error detection indicator and reporting
- Read and write data parity error detection indicator
- Duplexed RFDU/MM17 accessing
- 21 microsecond write time-out detection/reporting
- RFDU memory lockout
- RFDU Interface (option)

Reliability

- MTBF 4,129 hours (calculated)

Maintainability

- No preventive maintenance required