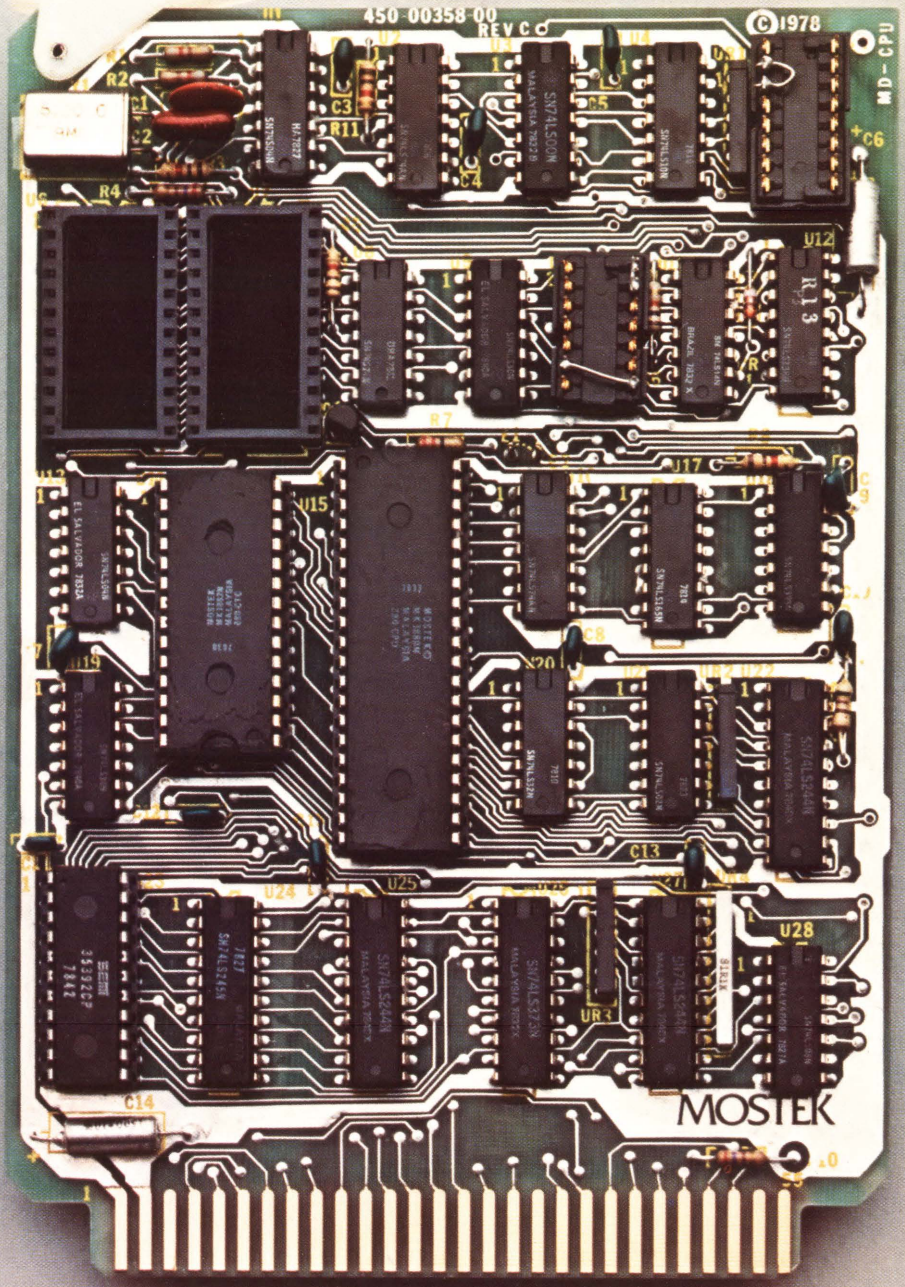
Mostek MD Series

MDX

Expandable Modules

MDX-CPU1



Actual size shown

MDX-CPU1

The CPU of a multi-module Z80-based microcomputer system. It is STD-Z80 BUS compatible, and is compatible with all Mostek Z80 development equipment.

FEATURES

- Z80 CPU
- 4K x 8 EPROM (two 2716's, customer provided)
- 256 x 8 Static RAM (compatible with DDT-80 debugger).
- Flexible Memory decoding for EPROM and RAM
- Four counter/timer channels
- Restart to 0000H or E000H (strapping option)
- Debug compatible for single step in DDT-80
- 4MHz version available
- +5V only
- Fully buffered signals for system expandability
- STD-Z80 BUS compatible

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-CPU1	Module with Operation Manual less EPROMs and mating connections. 2.5MHz version.	MK77850
MDX-CPU1-4	Module with Operations Manual less EPROMs and mating connectors. 4.0 MHz version.	MK77850-4
	MDX-CPU1 Operations Manual	MK79612

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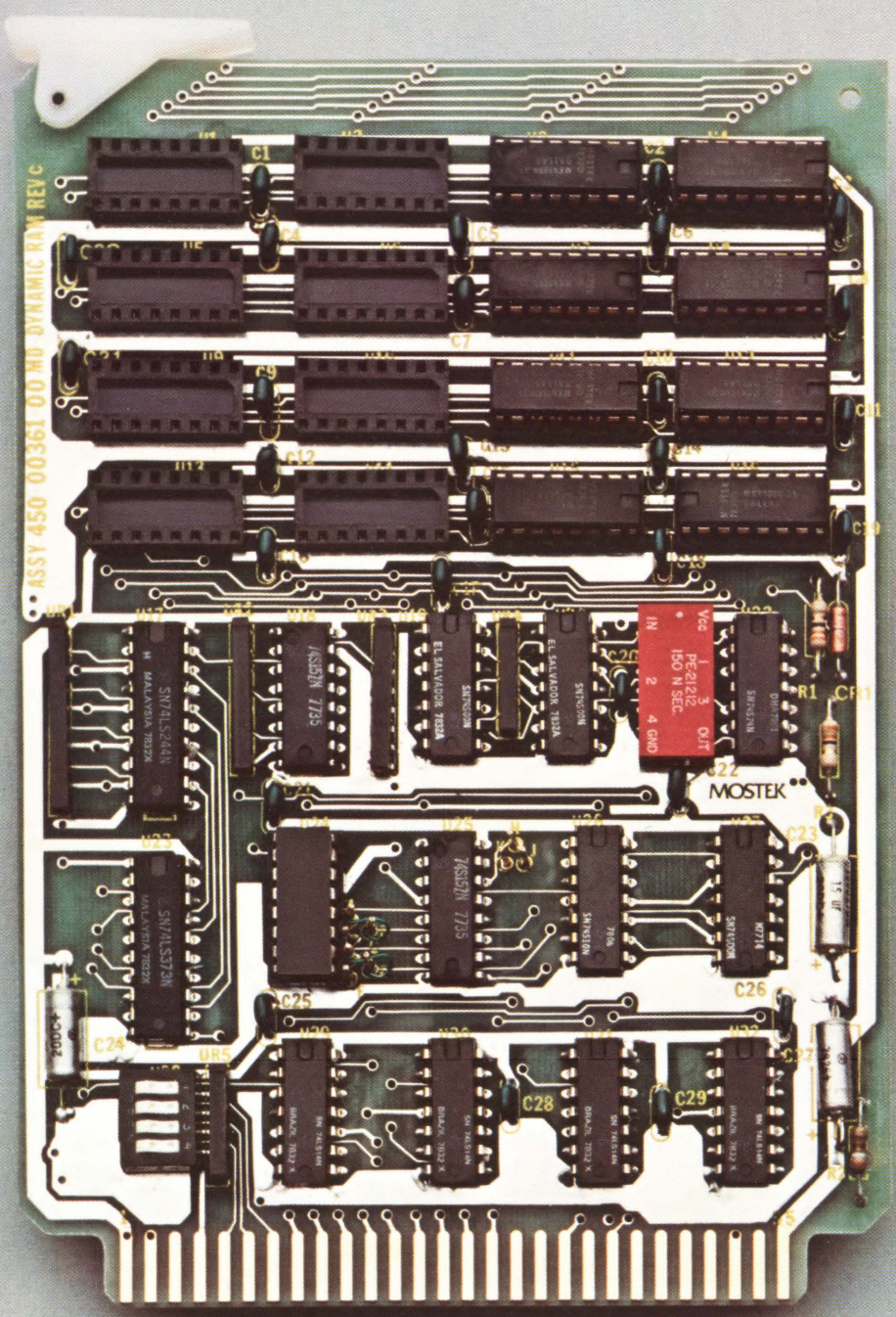
MDX-DRAM


ASSY 450 00361 00 MD DYNAMIC RAM REV C
MOSTEK
Actual size shown

MDX-DRAM

This add-on RAM module for the STD-Z80 BUS uses Mostek's dynamic RAMs.

FEATURES

- Three memory sizes
  - 8K x 8 (MDX-DRAM8)
  - 16K x 8 (MDX-DRAM16)
  - 32K x 8 (MDX-DRAM32)
- Selectable addressing on 4K boundaries
- 4MHz version available (MDX-DRAM-4)
- STD-Z80 BUS compatible

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
	Module with Operation Manual less mating connectors in the following memory capacities, 2.5MHz versions.	
MDX-DRAM8	8K Bytes (4108's)	MK77750
MDX-DRAM16	16K Bytes (4108's) (4116's)	MK77751 MK77754
MDX-DRAM32	32K Bytes (4116's)	MK77752
	Module with Operations Manual less mating connectors in the following memory capacities, 4.0 MHz version:	
MDX-DRAM16-4	16K Bytes (4116's)	MK77754-4
MDX-DRAM32-4	32K Bytes (4116's)	MK77752-4

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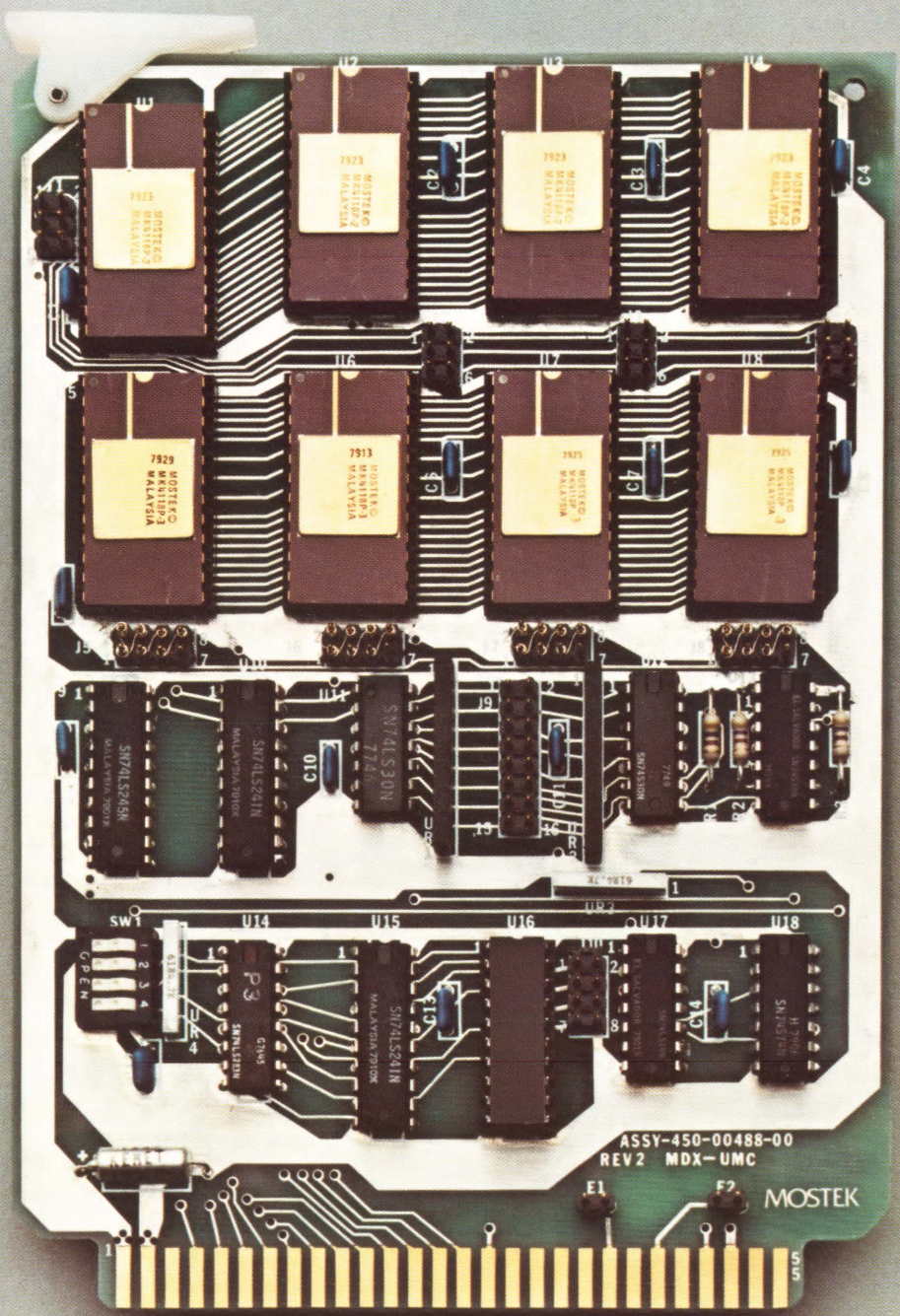
MDX-SRAM



Actual size shown

MDX-SRAM

The MDX-SRAM is a static memory expansion board for the STD-Z80 BUS.

FEATURES

- Three memory sizes
  - 4K x 8 (MDX-SRAM4)
  - 8K x8 (MDX-SRAM8)
  - 16K x 8 (MDX-SRAM16) [planned]
- Selectable starting address on 4K boundaries
- 2.5 MHz and 4.0 MHz compatible
- STD-Z80 BUS and STD BUS compatible
- +5 Volt only

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-SRAM4	4K Bytes (4118's) module with operation manual	MK77755
MDX-SRAM8	8K Bytes (4118's) module with operation manual	MK77756
MDX-SRAM16	16K Bytes (4802's) module with operation manual	MK77757
	MDX-SRAM Operations Manual only	MK79673

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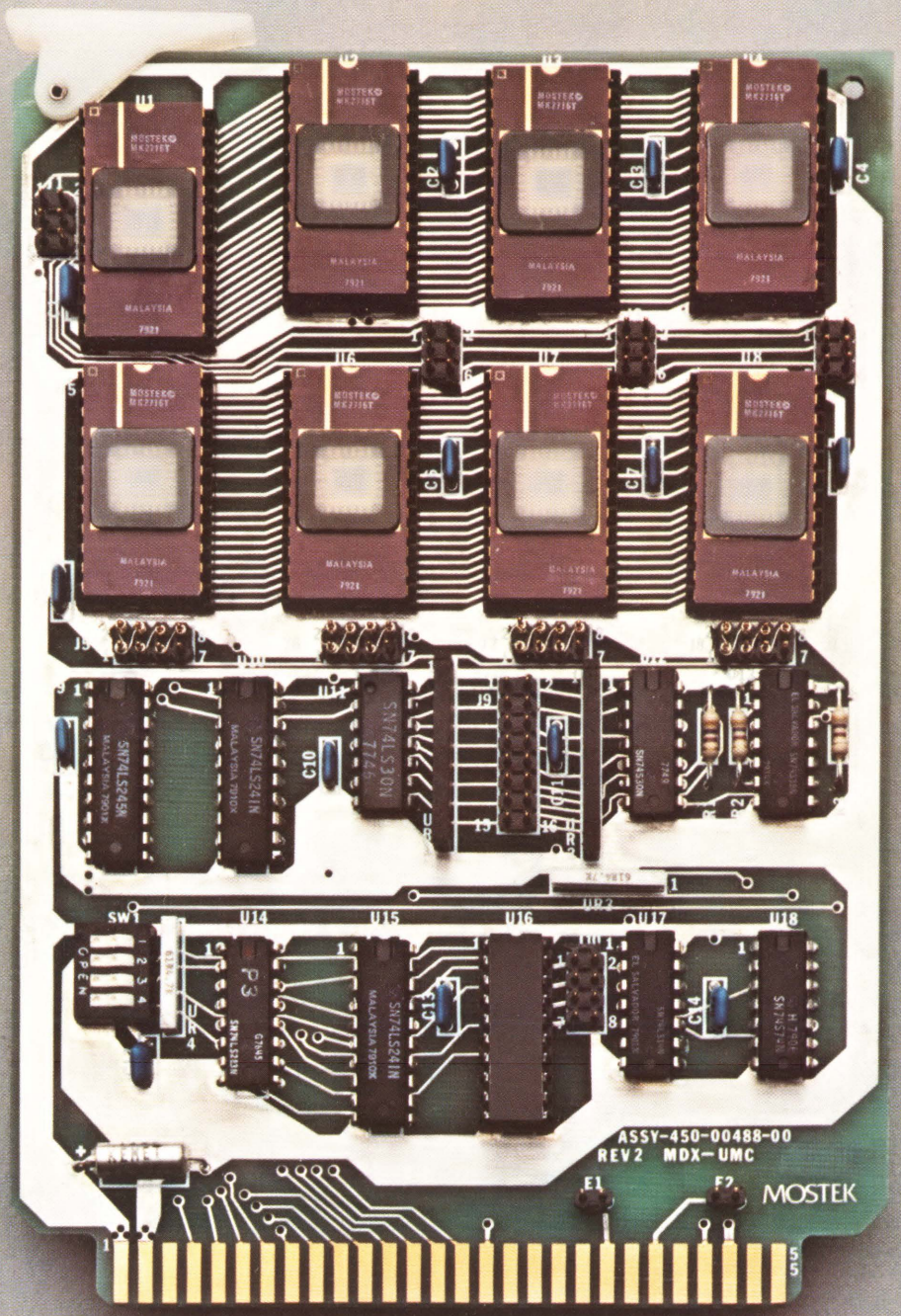
MDX-EPROM



Actual size shown

MDX-EPROM

The MDX-EPROM is an EPROM memory expansion board for the STD-Z80 BUS.

FEATURES

- Accepts the following industry standard EPROMS:
  2758 (1K x 8)
  2716 (2K x 8)
  2732 (4K x 8)
- Eight EPROM sockets for maximum storage of:
  8K x 8 using 2758's
  16K x 8 using 2716's
  32K x 8 using 2732's
- Eight 2716 EPROMs included
- Wait state generator for 4MHz operation
- STD-Z80 BUS compatible
- +5 Volt only

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-EPROM	Module with Operation Manual	MK77758
	MDX-EPROM Operations Manual only	MK79671

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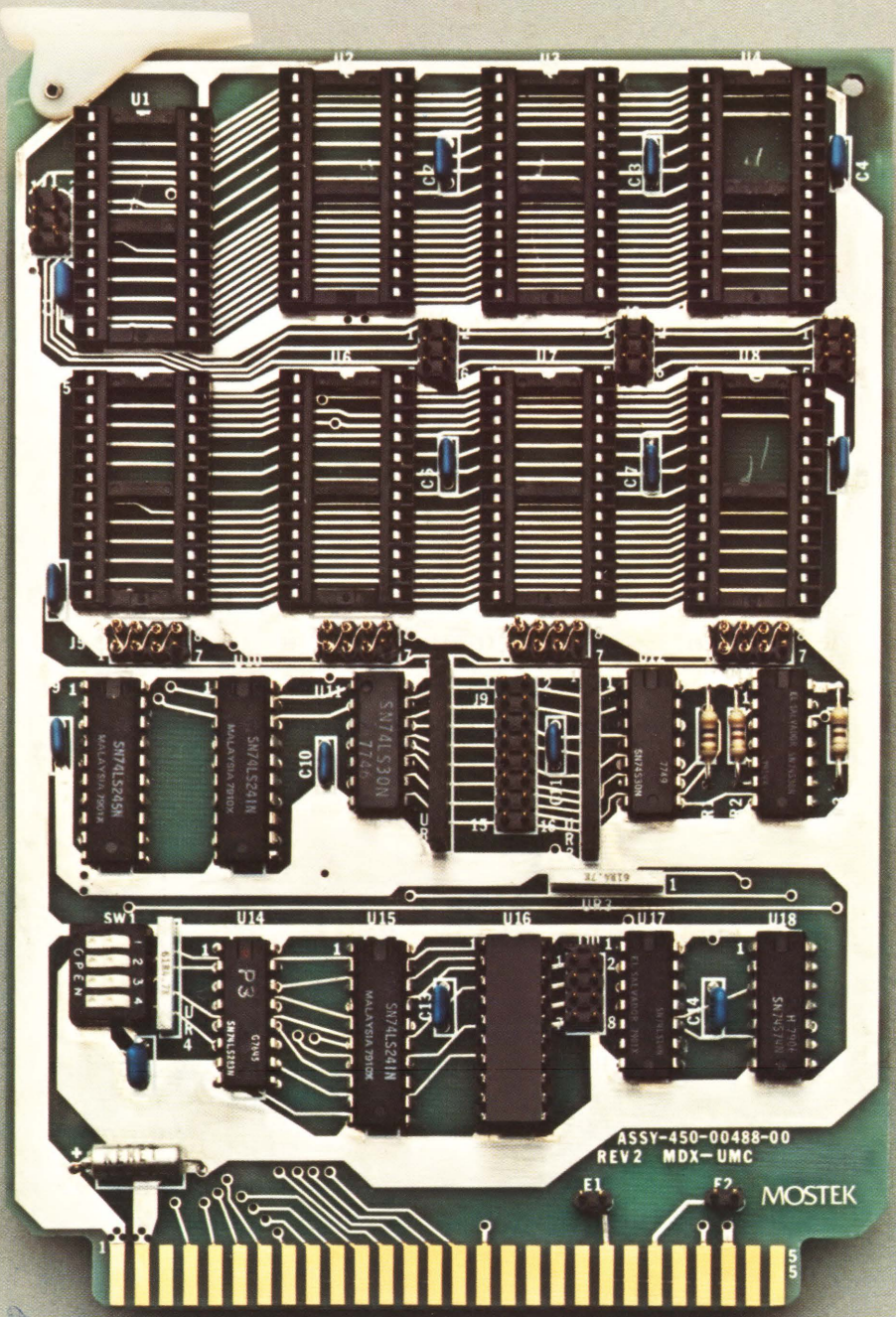
MDX-UMC



Actual size shown

MDX-UMC

A universal memory card for the STD-Z80 BUS. The MDX-UMC lets the user configure the board to meet the system requirement of ROM/EPROM and/or RAM by using strapping options.

FEATURES

- Can be strapped to accept the following industry-standard memory devices:

EPROM	STATIC RAM	ROM
2758 (1K x 8)	MK4118 (1K x 8)	
2716 (2K x 8)	MK4802 (2K x8)	MK34000 (2K x 8)
2732 (4K x 8)		

- Memories can be mixed to form a combination memory board
- Wait state generator for 4MHz operation
- STD-Z80 BUS compatible
- +5 Volt only

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-UMC	Module with operation manual less mating connectors	MK77759
MDX-PROTO	MD Series prototyping package	MK77951

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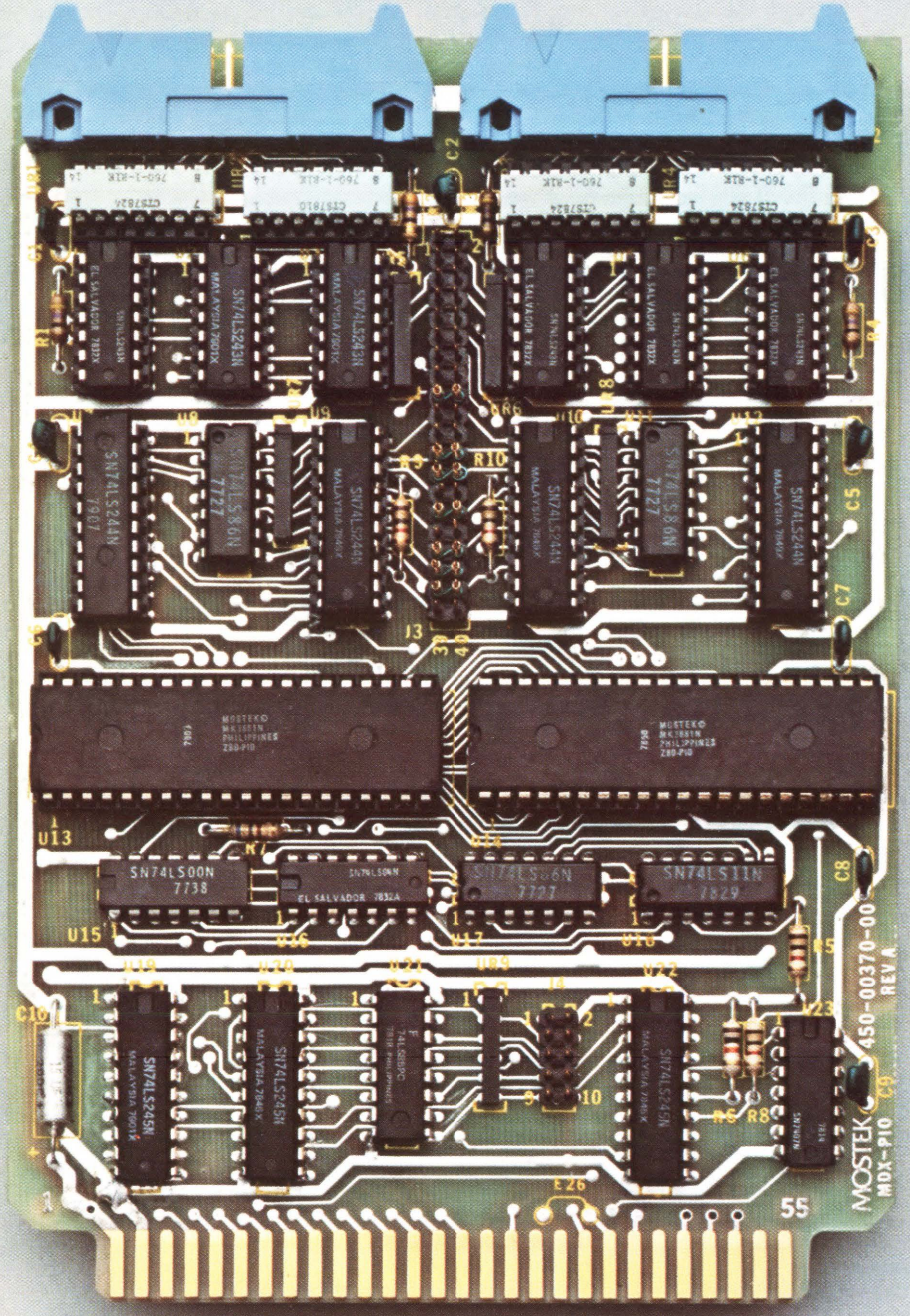
MDX-PIO



Actual size shown

MDX-PIO

Using Mostek's MK 3881 Z80-PIOs, this module is a general purpose programmable interface for the STD-Z80 BUS.

FEATURES

- Four 8-bit I/O ports with 2 handshake lines per port
- All I/O lines fully buffered
- I/O lines TTL compatible with provision for termination resistor networks
- Jumper options for inverted or non-inverted handshake
- Two 8-bit ports capable of true bidirectional I/O
- Programmable In only, Out only, or Bidirectional
- Output data buffers selectable to provide inverted or non-inverted drive capability
- Interrupt driven programmability
- Address strap selectable
- STD-Z80 BUS Compatible
- 4 MHz Option
- Fully buffered for MD Series expandability

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-PIO	Module with Operation Manual less mating connectors. 2.5MHz version	MK77650
MDX-PIO-4	Module with Operation Manual less mating connectors. 4.0 MHz version	MK77650-4
	MDX-PIO Operations Manual only	MK79606

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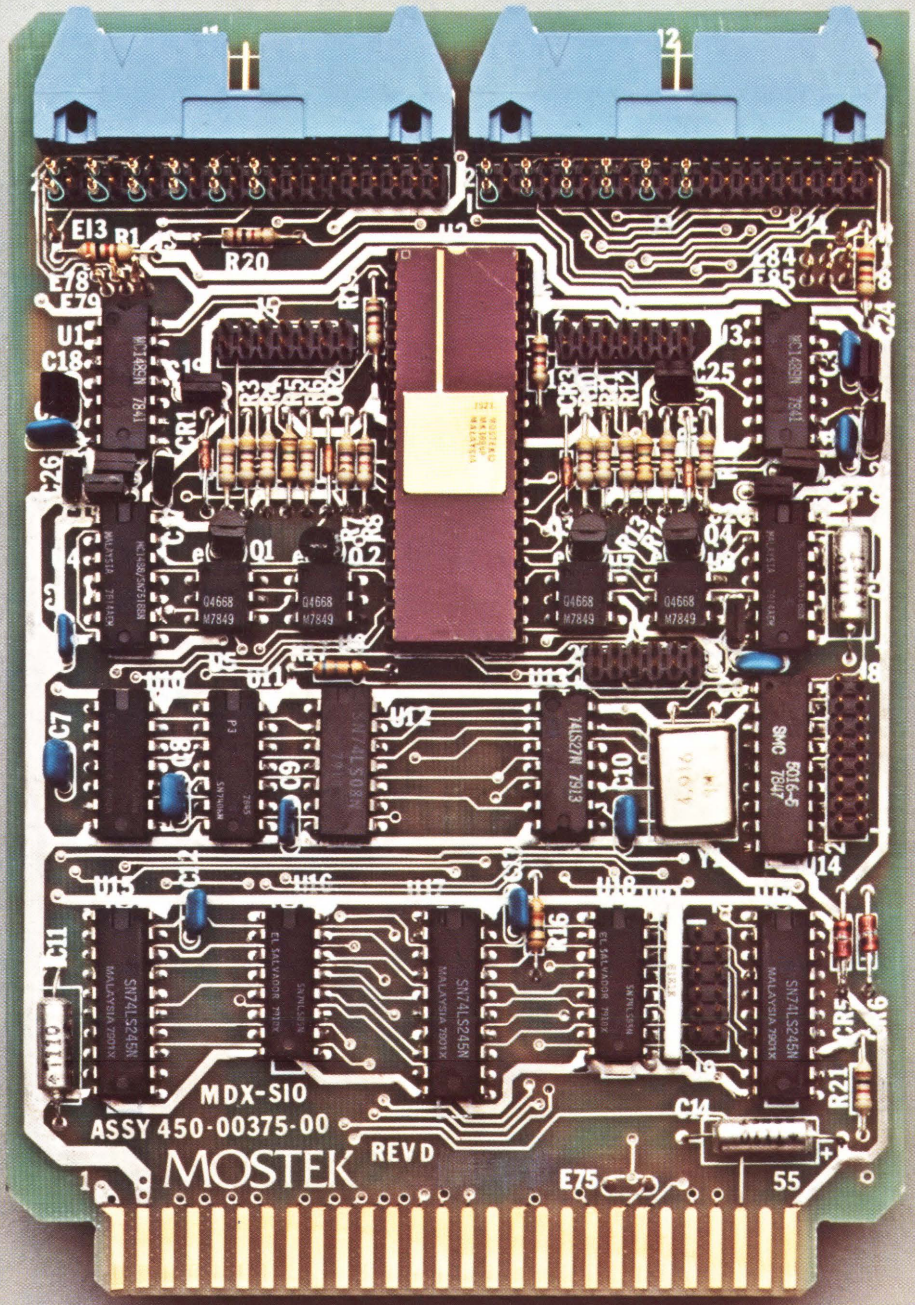
MDX-SIO



Actual size shown

MDX-SIO

Using Mostek's MK 3884 Z80-SIO, this MDX module is designed to be a multi-protocol asynchronous or synchronous I/O module for the STD-Z80 BUS.

FEATURES

- Two independent full-duplex channels
- Independent programmable Baud rate clocks
- Asynchronous data rates — 110 to 19.2K bits per second
- Receiver data registers quadruply buffered
- Transmitter data registers double buffered
- Asynchronous operation
- Binary synchronous operation
- HDLC or IBM SDLC operation
- Both CRC-16 and CRC-CCITT (-0 and -1) hardware implemented
- Modem control
- Operates as DTE or DCE
- Serial input and output as either RS-232 or 20mA current loop
- Current loop optically isolated
- Current loop selectable for either active or passive mode
- Address programmable
- 4 MHz option
- Compatible with STD-Z80 BUS

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-SIO	Dual channel, Full-Duplex Serial I/O Module less mating connectors with Operations Manual. 2.5MHz version.	MK77651
MDX-SIO-4	Module with Operations Manual less mating connectors. 4.0MHz version	MK77651-4
	MDX-SIO Operations Manual	MK79608

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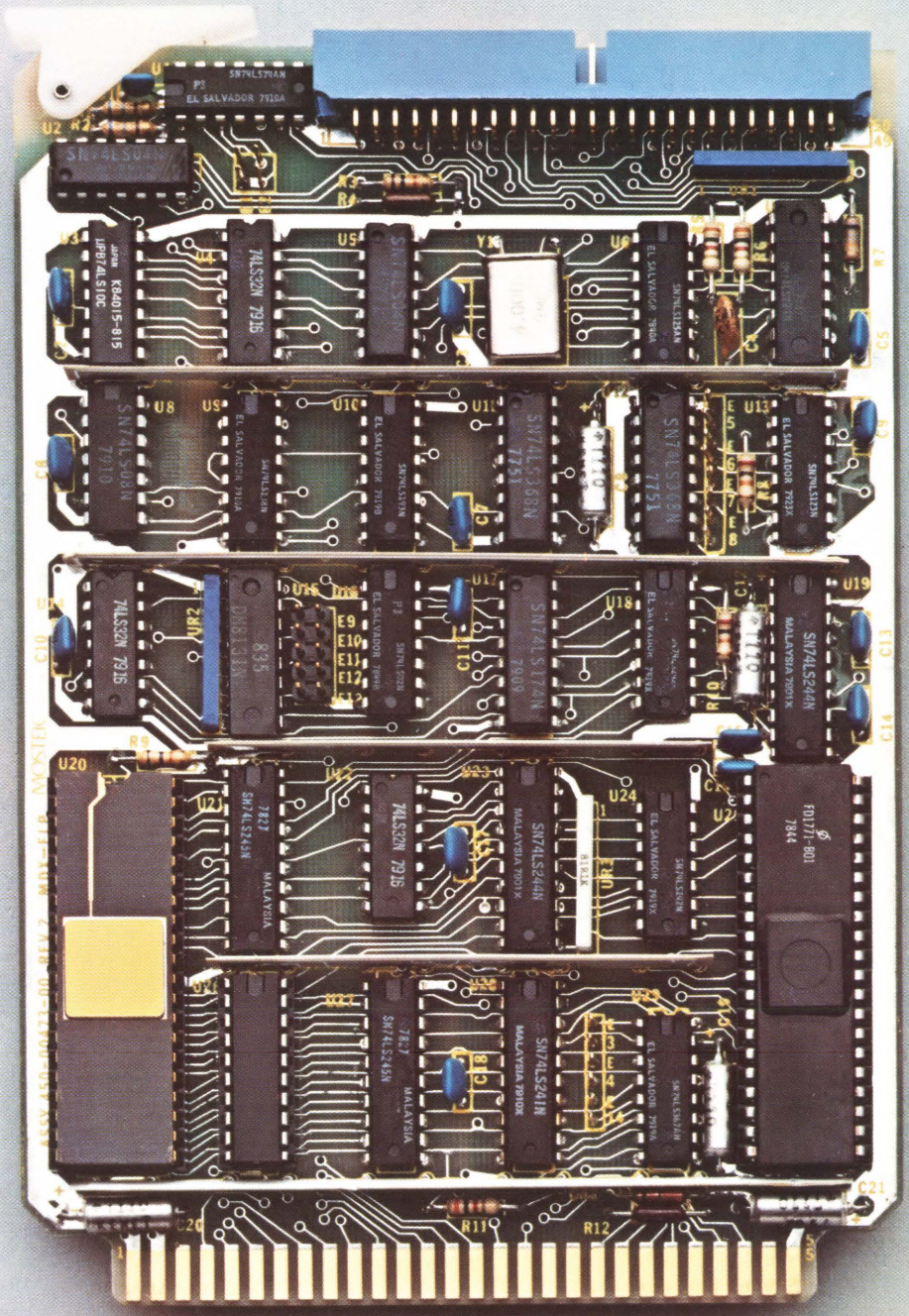
MDX-FLP



Actual size shown

MDX-FLP

This floppy disk controller module is capable of handling up to four disk drives on the STD-Z80 BUS.

FEATURES

- On-board DMA controller
- Supports up to four drives
- Single density operation
- IBM 3740 soft sector compatible
- Supports 5-inch or 8-inch drives, single or double-sided
- STD-Z80 BUS compatible
- Strap selectable port addresses
- Interrupt driven or polled operation

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-FLP	Module with Operation Manual less mating connectors. 2.5MHz version	MK77652
	MDX-FLP Operations Manual only	MK79639
MDDOS	MD Disk Operating Software	MK77965
FLP-80DOS	MD Development Software	MK77962

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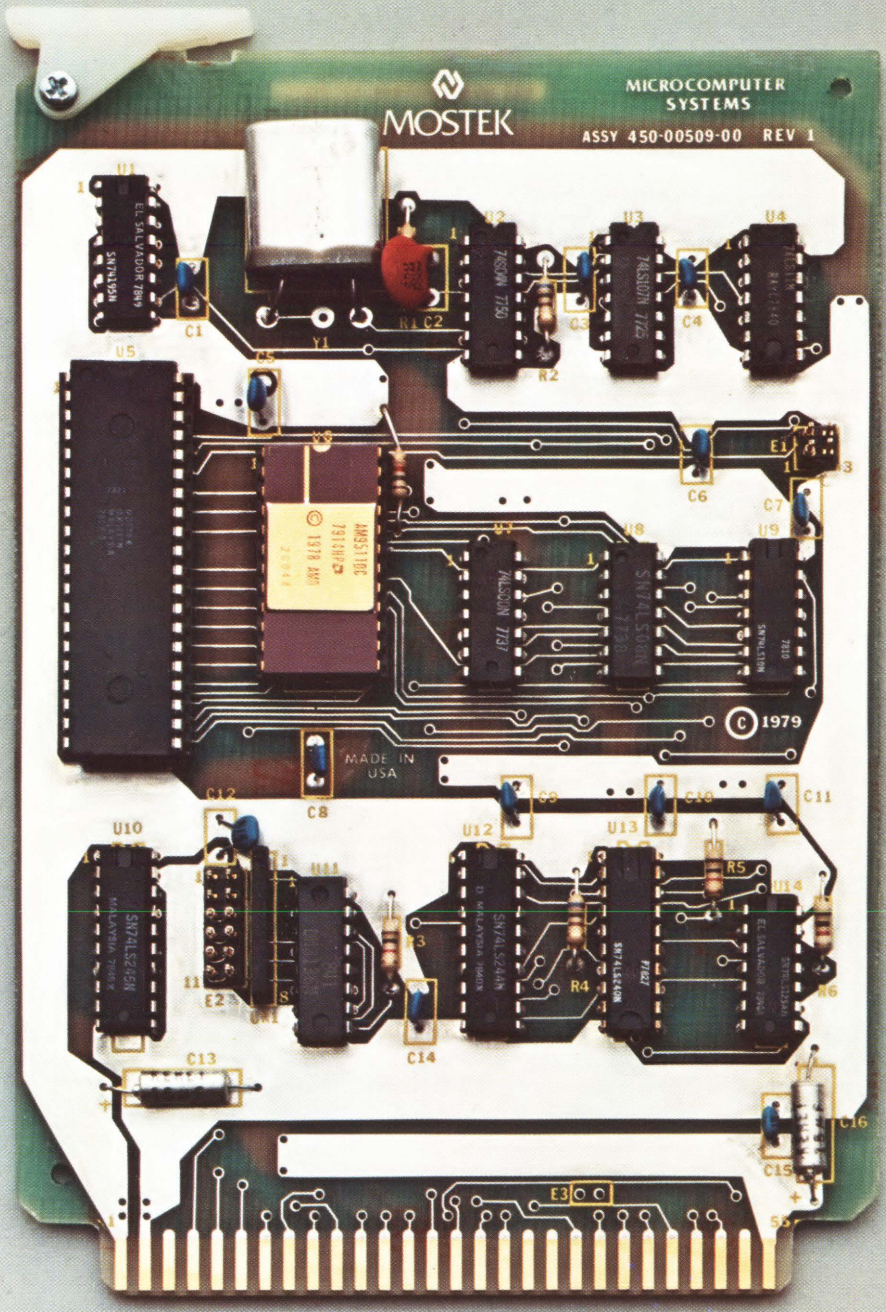
MDX-MATH



Actual size shown

MDX-MATH

Provides high speed computation using the AMD 9511 math processor.

FEATURES

- Uses AMD 9511 math processor (arithmetic and trigonometric functions)
- Interrupt driven or polled operation
- On-board wait state generator
- 32-bit floating point operation
- STD-Z80 BUS compatible
- Strap selectable port addresses

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-MATH	Module with Operations Manual; 2.5MHz version	MK77852
	MDX-MATH module Operations Manual only.	MK79741

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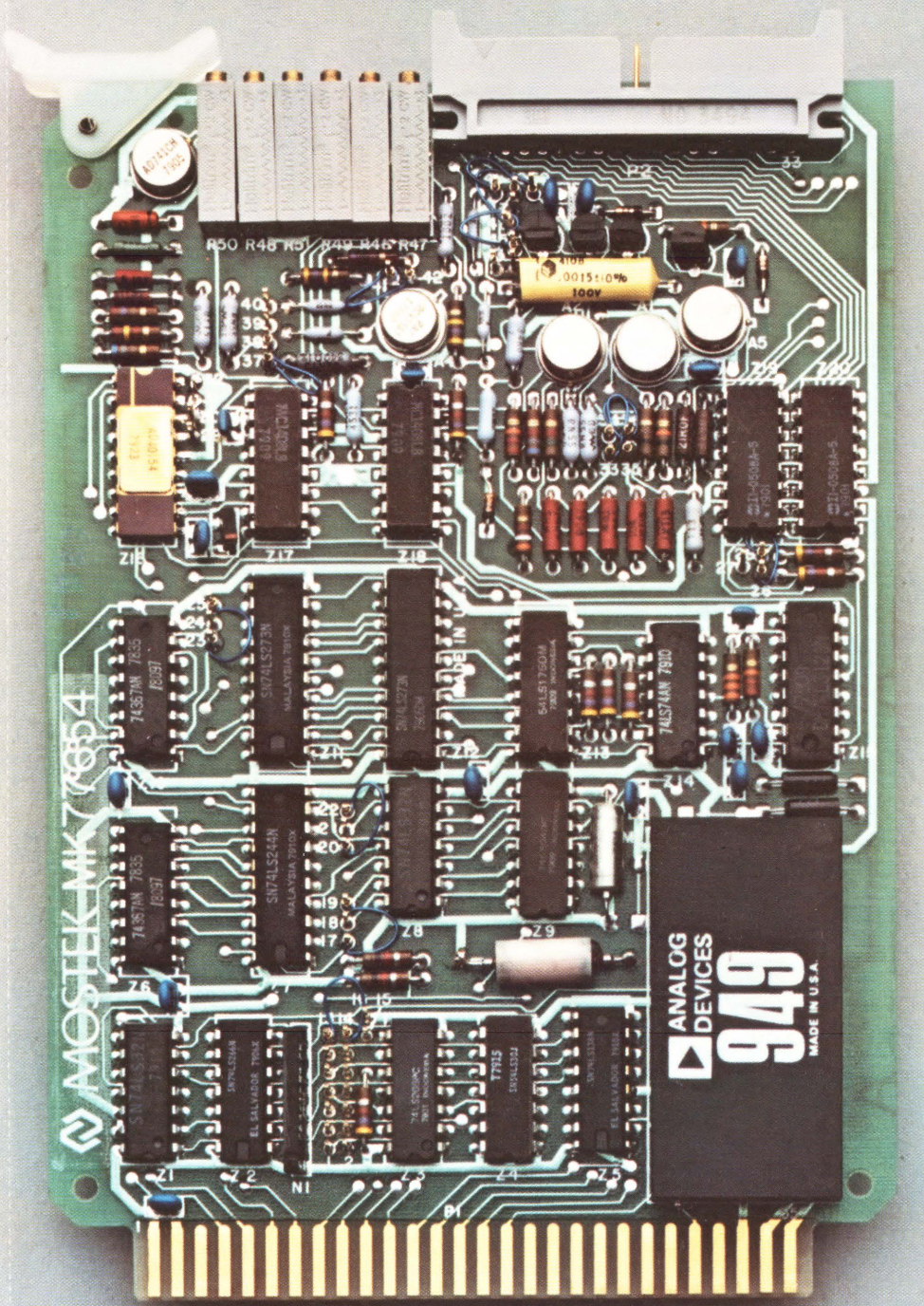
MDX-A/D10



Actual size shown

MDX-A/D 10

An Analog Data Acquisition and Control Board that comprises a complete analog I/O subsystem which simplifies the interface of real time analog signals to the MD Series.

FEATURES

- Memory mapped I/O
- Combination Analog Input and Output
- 16 channels of Analog single ended Input or 8 channels Differential
- 2 channels of 8-bit Analog Output
- Input overvoltage protection to ± 35 volts
- Sample and Hold Amplifier on board
- Monolithic 10-Bit A/D converter
- Single on-board precision reference circuit
- +5V only
- STD-Z80 BUS and STD BUS compatible

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-A/D10	Module with Operation Manual less mating connectors.	MK77654
	MDX-A/D10 Operations Manual Only	MK79775
MDX-PROTO Data Sheet	MD Series prototyping package data sheet	MK79605
AID-80F Data Sheet	Data Sheet of disk based development system MD Series	MK79568
AIM-80 Data Sheet	Z80 In-circuit Emulation module (2.5 MHz only)	MK78537

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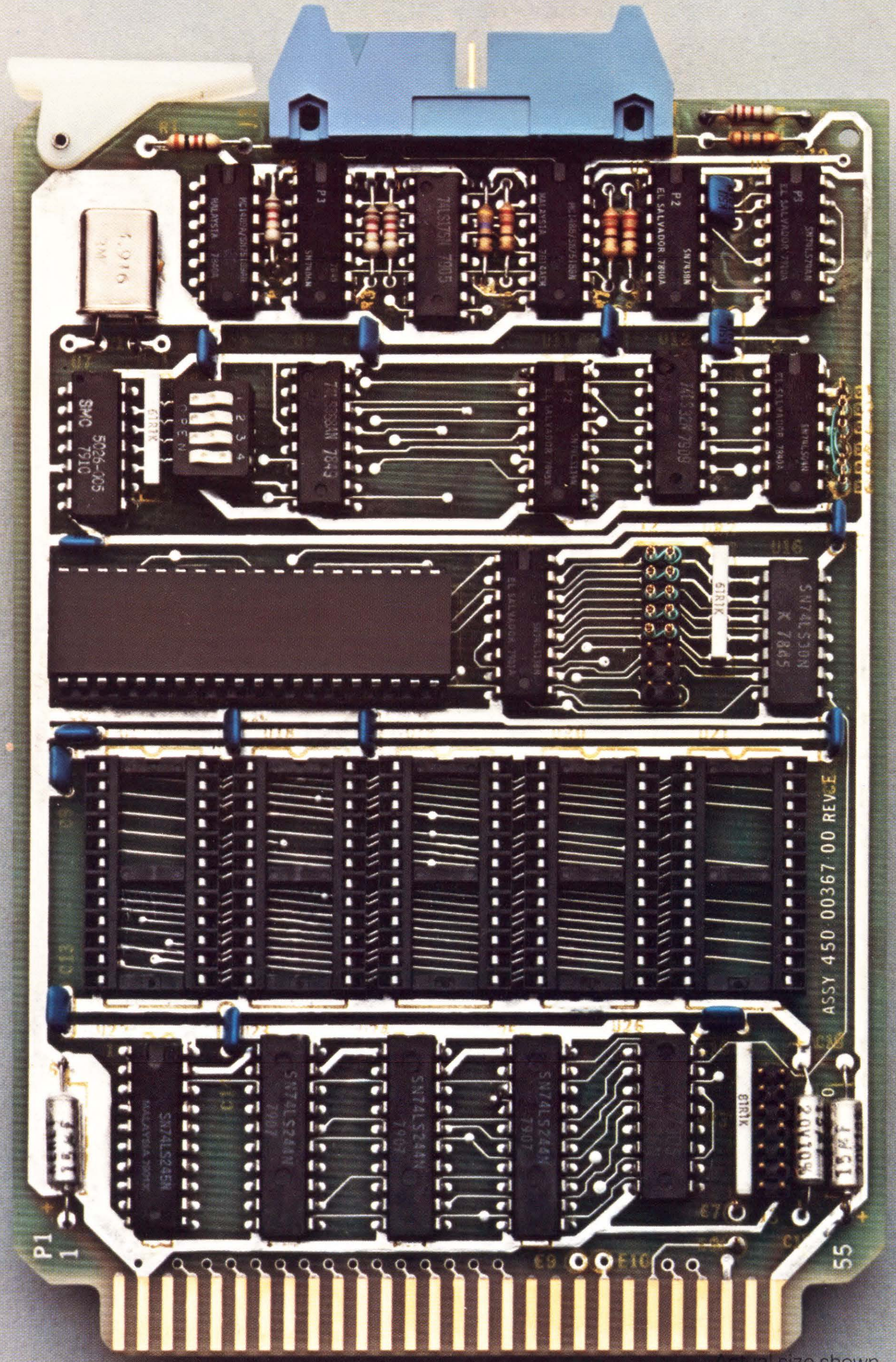
MDX-EPROM/UART



Actual size shown

MDX-EPROM/UART

A universal PROM add-on module for the STD-Z80 BUS. Includes a fully-buffered asynchronous I/O port with a Teletype reader step control.

FEATURES

- 10K x 8 EPROM/ROM (2716's not included)
- Serial I/O channel
  RS-232 and 20 mA interface
  Reader step control for Teletypes
  Baud rate generator 110-19200 Baud
- 4MHz version available (MDX-EPROM/UART-4)
- STD-Z80 BUS compatible.

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-EPROM/UART	Module with Operation Manual Less EPROMs and mating connectors. 2.5MHz version.	MK77753
MDX-EPROM/UART-4	Module with Operation Manual less EPROMs and Mating connectors. 4.0 MHz version.	MK77753-4
	MDX-EPROM/UART Operations Manual only	MK79604

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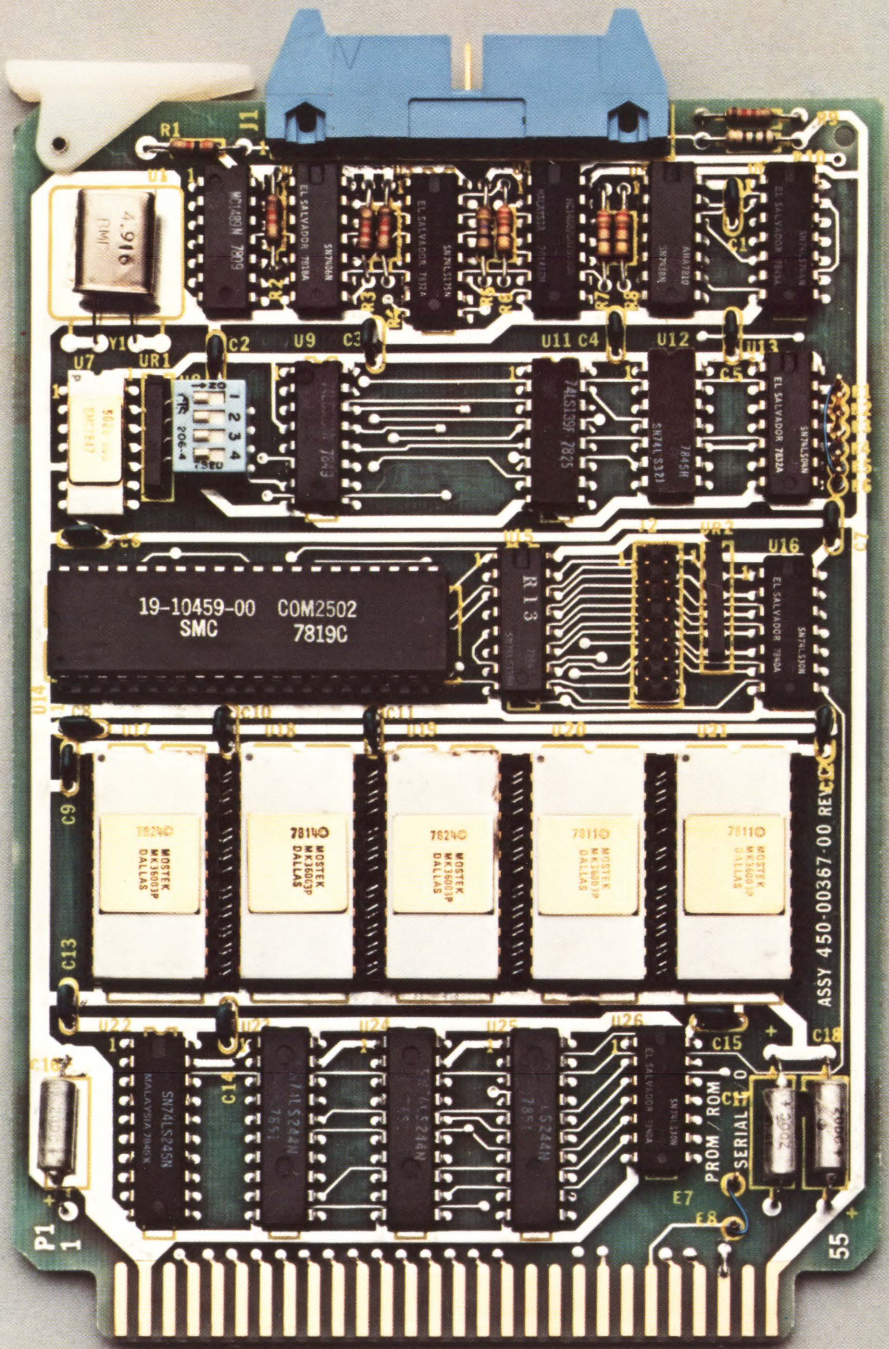
MDX-DEBUG



Actual size shown

MDX-DEBUG

Provides the designer a low cost way to generate and debug Z80 programs on the STD-Z80BUS. This module may be used in place of external development equipment.

HARDWARE FEATURES

- STD-Z80 BUS compatible
- 4 MHz version available
- Serial I/O Channel
- 10K bytes of ROM contain the following firmware: DDT-80, ASMB-80

DEBUGGER FEATURES

- Z80 Operating System with debug capability
- Channelized I/O for versatility
- I/O peripheral drivers supplied
- ROM based

TEXT EDITOR FEATURES

- Input and modification of ASCII Text
- Line and character editing
- Alternate command buffers for pseudo-macro command capability
- ROM based

ASSEMBLER FEATURES

- Assembles all Z80 mnemonics
- Object output in industry standard hexadecimal format extended for Relocatable and Linkable Programs
- Over fifteen pseudo-ops
- Two pass assembly
- ROM based

LINKING LOADER FEATURES

- Loads into memory both relocatable and non-relocatable object output of the assembler
- Loads Relocatable modules anywhere in memory
- Automatically provides linkage of global symbols between object modules as they are loaded
- Prints system load map
- ROM based

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-DEBUG	Module with 10K bytes of firmware and Operations Manual. No mating connectors. 2.5MHz version.	MK77950
MDX-DEBUG-4	Module with 10K bytes of firmware and Operations Manual. No mating connectors. 4.0MHz version	MK77950-4
	MDX-DEBUG Operations Manual only	MK79611
	Program Source Listing of 10K byte firmware package (DDT/ASMB-80) including comments and flow charts. (Available free with purchase of either MDX-DEBUG Module). License required.	MK78536 and MK78534

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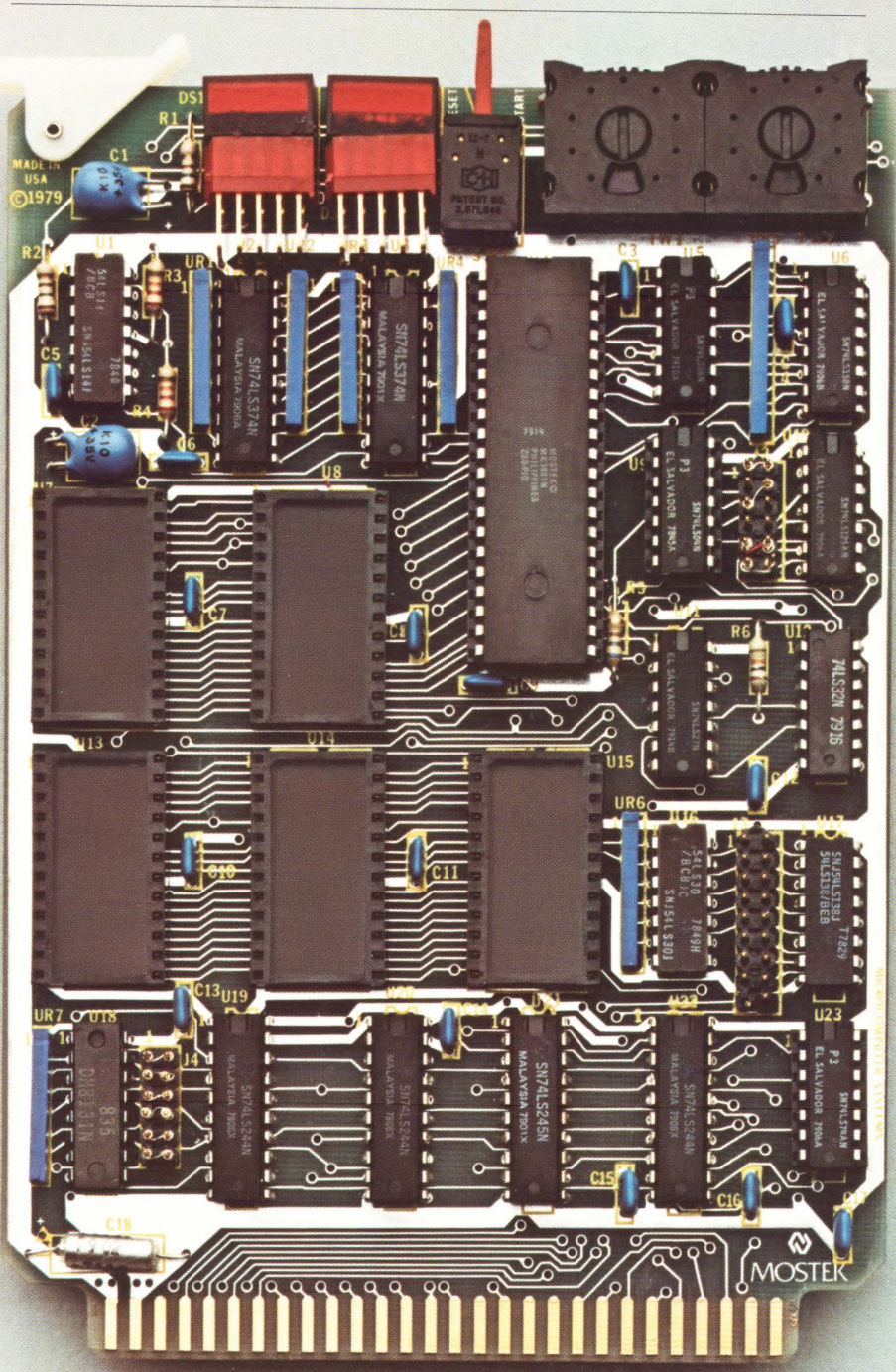
MDX-SC/D



Actual size shown

MDX-SC/D

A system controller and diagnostic module for the MD Series.

FEATURES

- Provides operator interface via control switches and display readouts
- Push button reset
- Memory sockets for up to 10K of EPROM
- Software is available for diagnostics (MEDEX-80)
- Strap selectable port addresses
- Selectable memory addressing on 2K boundaries
- STD-Z80 BUS compatible
- 4MHz version available
- +5 Volt only

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-SC/D	Module with Operation Manual, 2.5MHz version	MK77963
MDX-SC/D-4	Module with Operation Manual, 4.0MHz version	MK77963-4
	MDX-SC/D Operation Manual Only	MK79678
MEDEX-80	Diagnostic software for various MD Series cards	MK77968

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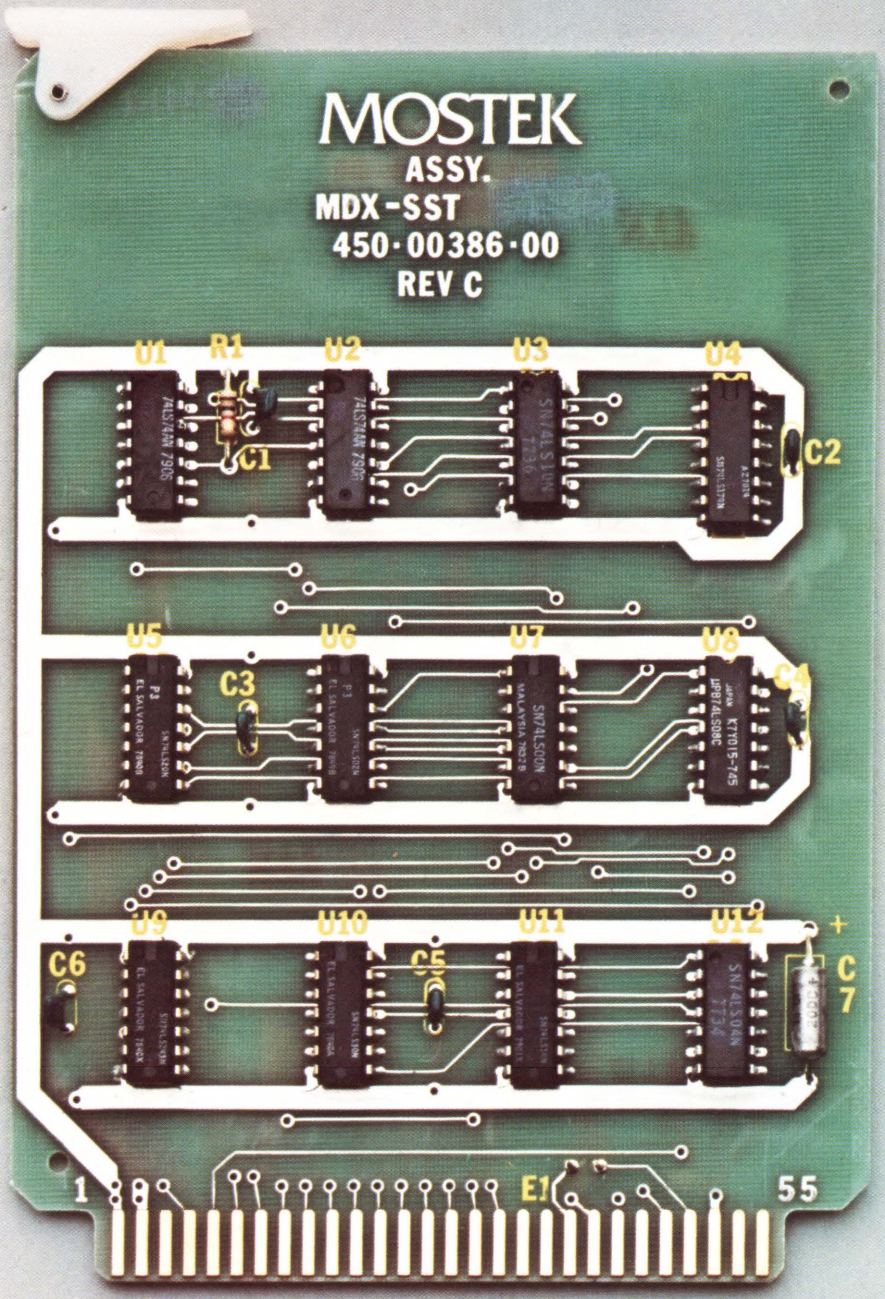
MDX-SST



Actual size shown

MDX-SST

The MOSTEK MDX-SST was designed to enhance the hardware and software debug capability for MD Series systems. The use of the MDX-SST with the MDX-CPU1 and MDX-DEBUG boards allows the user to single-step instructions through RAM and/or EPROM/ROM with the capability of displaying all of the MDX-CPU1 registers on each instruction execution.

FEATURES

- □ Hardware single-step capability
- □ Compatible with DDT-80 Operating System
- □ STD-Z80 BUS compatible

ORDERING INFORMATION

DESIGNATOR	DESCRIPTION	PART NO.
MDX-SST	Single Step Module	MK77958
	MDX-SST Operations Manual only	MK79638

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