

JUPITER II SYSTEM

BMS-125 BASIC MAINFRAME SYSTEM Fulfills the basic requirements of a minimum system. Requires addition of memory, I/O interfaces and control ROMs. Includes: SMC 125

CPS-125
CPU-125
CFP-125
SDM-125
EXC-125

KIT BMS-125K 1000.00

ASSEMBLED BMS-125A 1250.00

SMC-125 SYSTEM MODULE CAGE A sturdy and handsome module cage that can be set on a table top, with provided feet and protective screen, or rack mounted. Unit has space for power supply plus 8 additional modules. Legended front panel included. Printed circuit backplane and connectors are included. Size is 5¼ x 19 x 14 inches.

KIT SMC-125K 200.00

ASSEMBLED SMC-125A 210.00

CPS-125 COMPUTER SYSTEM POWER SUPPLY

This modular plug-in power supply provides the JUPITER II system bus with five semi-regulated voltages. After final regulation the available outputs are +5V at 5A, +12V at 2A, +26V at 100MA, -5V at 1A, -12V at 1A. In addition, any voltage in between these is available. The input and all outputs are fused separately. Input is 115/230V AC 60HZ. A RFI filter is included as standard. Unit takes space of three modules and comes with a 6 FT detachable cord.

ASSEMBLED CPS-125-6 210.00

ASSEMBLED CPS-125-5 220.00

CPU-125 CENTRAL PROCESSOR UNIT MODULE

The CPU module contains the MC6800 microprocessor and all the support electronics to control the operation of the JUPITER II system bus. Clock speed is typically 1 microsecond but may vary depending on the particular device being addressed. Seven vectored interrupt levels and direct memory access controls are provided standard. A 31 microsecond refresh clock is also included. Unit will automatically reset on power up. Takes one module space.

KIT CPU-125K 265.00

ASSEMBLED CPU-125A 365.00

CFP-125 COMPUTER FRONT PANEL UNIT The CFP unit mounts behind a beautifully finished smoke plexiglas panel. The CFP unit contains three operation switches and a four digit (1/2") hexadecimal display of the system address bus. The functions provided for by the CFP are System Reset, Front Panel Interrupt, Run/Halt and Single Instruction Step. Two status lights are also provided; one shows the Run/Halt status of the processor and also any DMA activity on the system bus. The other shows the amount of interrupt processing within the CPU module. Plugs into back of CPU-125 through supplied flat cable.

KIT CFP-125K 135.00

ASSEMBLED CFP-125A 180.00

SDM-125 SOFTWARE DEBUGGER AND MONITOR MODULE

The SDM module contains the JUPITER II system Monitor and Debugger programs. These programs are located in up to three 1024 byte Erasable and Programmable Read Only Memorys (EPROM) which are priced separately with the program that fits the I/O configuration of your system. The address of these EPROMS are factory set to locations F000 to FBFF. The SDM module includes 128 bytes of Write Protected RAM located at locations FCOO to FCFF. This module also includes a 16 line address Breakpoint Comparator and logic for execution of any single instruction at a time. All under Software Monitor control. Takes up one module space.

To order, add control program and added ROM cost.

KIT SDM-125K 185.00

ASSEMBLED SDM-125A 265.00

SDM CONTROL EPROMS

2KB for serial devices **ROM-8-1** 220.00

Copyrighted listings with SDM purchase 15.00

EXC-125 EXTENSION CARD Plugs into buss in place of module. Module then plugs into EXC-125 and is extended 7½ inches out of module cage for debugging purposes. This card acts as a heat shield for CPS-125 when plugged into special holding slot next to power supply.

KIT EXC-125K 35.00

ASSEMBLED EXC-125A 50.00

EMC-125 EXPANSION MODULE CAGE Bolts onto SMC-125. Unit has space for 7 modules and one power supply (CPS-125), or 10 modules. Blank smoke plexiglass front panel included. Includes electronics to fully buffer all necessary bus signals. All hardware is included. Size is 5¼ x 19 x 14 inches.

KIT EMC-125K 345.00

ASSEMBLED EMC-125A 405.00

DMM-125 DYNAMIC MEMORY MODULE The dynamic memory module will hold either 4KB or 8KB of dynamic memory. The address is selectable to any 8KB boundary. This memory may be write protected. This memory is refreshed by DMA from the CPU-125 module once every 32 microseconds. Takes up one module space.

KIT 4KB MEMORY DMM-125K-4 265.00
KIT 8KB MEMORY DMM-125K-8 380.00

Additional 4KB RAM (for DMM-125K-4)
RAM-125-4 115.00
ASSEMBLED 4KB MEMORY DMM-125A-4 380.00
ASSEMBLED 8KB MEMORY DMM-125A-8 495.00

SMM-125 DUAL PORT STATIC MEMORY MODULE
The static memory module will hold either 1KB or 2KB of static. Low power high speed 2102 type memory. The address is selectable to any 2KB boundary. This memory may be write protected. A second read-only port on a back connector allows this memory to be used in such applications as CRT or graphics refresh. Takes one module space.

KIT 1KB SMM-125K-1 175.00
KIT 2KB SMM-125K-2 220.00

Additional 1KB RAM (for SMM-125K-1)
RAM-125-1 45.00
ASSEMBLED 1KB SMM-125A-1 270.00
ASSEMBLED 2KB SMM-125A-2 315.00

SRM-125 STATIC EPROM MODULE The SRM module will hold from 1KB to 8KB of 2708 type erasable and reprogrammable read only memory. The address is selectable to any 8KB boundary. The EPROMS are priced separately.

KIT SRM-125K 125.00
ASSEMBLED SRM-125A 205.00

EPROMS 1KB each, needs PGM-125 programmer to program and UVS-54 ultraviolet lamp to erase.
ROM-8 98.00

PGM-125 EPROM PROGRAMMER MODULE The PGM module under JUPITER II software control will program 2708 type EPROMS. Device address is selectable from FFOO to FFFF. Takes one module space.

KIT PGM-125K 135.00
ASSEMBLED PGM-125A 185.00

Ultraviolet lamp for erasing EPROMS
UVS-54 69.95

TOOLS

HAND WIRE WRAPPING TOOL
Fine hardened steel tool for wrapping all kits.
HWW-1 20.00

SDI-125 SERIAL DATA INTERFACE (RS-232-C) The SDI module converts from parallel data to serial data for communicating with any standard RS-232-C terminal or data communications equipment. Provides functions: RTS, DTR, DSR, CTS. 16 selectable baud rates are provided by a crystal oscillator needing no adjustments. Device address is selectable from FFOO to FFFF. Uses only one half of module: the remaining half is available for custom interfaces.

KIT SDI-125K 165.00
ASSEMBLED SDI-125A 200.00

15 FT cable to female 25 pin connector for data terminals
SDC-15F 14.95
15 FT cable to male 25 pin connector for data communications equipment
SDC-15M 14.95

DSD-125 DUAL SERIAL DATA INTERFACE (RS-232-C) Same as single SDI-125 data interface but with two completely independent interfaces. Takes one module space.

KIT DSD-125K 190.00
ASSEMBLED DSD-125A 260.00

PDI-125 PARALLEL DATA INTERFACE The PDI module consists of two independent 8 bit data channels. Each channel may be selected for either input, output, or tri-state data channel. Each channel also has one input and one output or two inputs connected for handshake control and optionally connected to the interrupt circuitry of the JUPITER II bus. Data channels are buffered to drive 20 std TTL loads. Device address is selected from FFOO to FFFF. Uses only one half of module. The remaining half is available for custom interfaces. Includes 15 FT of 26 wire flat ribbon cable and connector.

KIT PDI-125K 125.00
ASSEMBLED PDI-125A 175.00

DPD-125 DUAL PARALLEL DATA INTERFACE
Same as PDI-125 data interface but with two completely independent interfaces.

KIT DPD-125K 175.00
ASSEMBLED DPD-125A 225.00

ELECTRIC WIRE WRAPPING GUN
Professional model heavy duty Wire Wrap gun. Includes bit and sleeve.

EWV-1 130.00

HAND UNWRAPPING TOOL
Fine hardened steel tool. Needed for all kits.

HUW-1 5.00

GROUND CLIP INSERTION TOOL
Makes kit building easier.

GCI-1 5.00

UMC-125 UNIVERSAL MODULE KIT The universal module provides all basic hardware necessary for building custom interfaces. Sockets, I/O Connectors, Additional voltages (+5V standard) and wire must be ordered separately. Assembly manual is not included and must be ordered separately (may not be required)

KIT UMC-125K 35.00
 Assembly Manual (optional) UMC-125MK 5.00

ADDITIONAL VOLTAGE KITS Provides additional voltage of either +12, -5, or -12 for one row of (8 MAX) ICS. Additional rows of the same voltage must be ordered separately.

KIT +12 VOLTS VMP12 8.00
KIT -12 VOLTS VMN12 8.00
KIT -5 VOLTS VMN5 8.00

ADDITIONAL ROW HARDWARE FOR ADDITIONAL VOLTAGES.

KIT (One per row) UMV-1 2.75

SOCKETS KIT

Maximum of 32 18 pin sockets per module. Three-level gold plated, snap-in fit construction.

KIT 18 PIN SOC-18K77
 24 pins takes space of 3 18 pin sockets.
KIT 24 PIN SOC-24K 1.25
 40 pins takes space of 5 18 pin sockets.
KIT 40 PIN SOC-40K 1.50

I/O CONNECTORS

Includes male card connector, female flat cable connector and 15 FT of ribbon cable.

KIT 10 PIN 10C-10K 9.00
KIT 20 PIN 10C-20K 15.75
KIT 26 PIN 10C-26K 19.00
KIT 34 PIN 10C-34K 27.00
KIT 50 PIN 10C-50K 38.25

WIRE WRAP WIRE 30 gauge Kynar insulation. Color coded. Stripped 1 inch on each end.

Length	Color		25 PKG	50 PKG	100 PKG	250 PKG	500 PKG	1000 PKG
3 1/2	Black	Price	.40	.65	1.05	2.10	4.00	7.60
4	Red		.41	.67	1.09	2.20	4.20	8.00
4 1/2	Yellow		.42	.69	1.13	2.30	4.40	8.40
5	Green		.43	.71	1.17	2.40	4.60	8.80
5 1/2	Blue		.44	.73	1.21	2.50	4.80	9.20
6	White		.45	.75	1.25	2.60	5.00	9.60
6 1/2	Brown		.46	.77	1.29	2.70	5.20	10.00
7	Orange		.47	.79	1.33	2.80	5.40	10.40
7 1/2	Purple		.48	.81	1.37	2.90	5.60	10.80
8	Gray		.49	.83	1.41	3.00	5.80	11.20

Delivery 60 days ARO Effective August 1, 1976.
 Subject to change without notice.



WAVE MATE 1015 West 190th Street Gardena, California 90248 Telephone (213) 329-8941

SOFTWARE FOR JUPITER II

Prices shown as "*" below require prior purchase of sufficient hardware from Wave Mate. Factory quote is required on all software or listings purchased by individuals who have not previously purchased JUPITER II systems. Paper tape binaries and manuals are included. As additional peripherals are made available by Wave Mate, binaries will be available for loading from those devices.

TEXT EDITOR FOR JUPITER II

Requires 8KB memory and system monitor

EDIT-125 25.00**
 Manuals only EDIT-125M 10.00

ASSEMBLER FOR JUPITER II [6800]

Requires 8KB memory and system monitor.

ASM-125 45.00**
 Manuals only ASM-125M 20.00

BASIC FOR JUPITER II

Requires 8KB system and system monitor.

BSC-125 55.00**
 Manuals only BSC-125M 25.00

TERMS

Terms are cash with order, BankAmericard or Mastercharge. COD orders require 50 percent down. For COD orders, an invoice will be sent before shipment showing final balance due. Please pay balance before shipment date. Remember, personal checks must clear before shipment can be made. We will pay shipping charges on orders over \$500.00.

NEW ADDITIONS TO THE JUPITER II PRODUCT LINE

ACI-125	The dual audio cassette interface module serves as a complete paper tape replacement. Start/stop motor controls are provided. It uses the Kansas City standard for 300 baud and also runs at 600 and 1200 baud.
	KIT ACI-125K.....235.00
	ASSEMBLED ACI-125A.....330.00
VDI-125	The video display interface includes high display resolution due to ANSI standard sync and video signals. A dual port static memory (SMP-125) is used with the VDI for display refreshing without using CPU cycles. The interface displays 32 lines with 64 characters per line. Graphics mode provides 128 dots horizontally with 96 dots vertically. The character set includes upper and lower case, Greek, and graphics characters.
	KIT VDI-125K.....270.00
	ASSEMBLED VDI-125A.....350.00
SMP-125	The SMP is a 2K dual port static RAM for the video display interface. A parallel interface (PIA) is split between the two cards to interface a keyboard.
	KIT SMP-125K.....235.00
	ASSEMBLED SMP-125A.....330.00
ROM-8-2	1KB control EPROM for video interface. Fits on SDM card; contains video driver software.
	ROM-8-2.....110.00
ERM-125-2-2	2KB RAM, 2KB EPROM card. One of the most economical memories for standalone systems. Does not include EPROMs.
	KIT ERM-125K-2-2.....230.00
	ASSEMBLED ERM-125A-2-2.....320.00
KEY-125	Full ASCII keyboard for Jupiter II systems. Includes encoded 12 key pad with cursor controls. Price includes case and cable.
	ASSEMBLED KEY-125.....285.00
TV-125	Modified 12-inch black and white TV for Jupiter II.
	ASSEMBLED TV-125.....180.00