

## JUPITER II SYSTEM CATALOG



# WAVE MATE



#### JUPITER II

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  $5\frac{1}{4} \times 19 \times 14$  inches.

KIT SMC-125K	189 <b>.</b> 95
Manuals only SMC-125MK	2.00
ASSEMBLED SMC-125A	<b>260.00</b>
Manuals only SMC-125MA	2.00

EMC-125 EXPANSION MODULE CAGE Bolts onto SMC-125. Unit has space for 8 modules and one power supply (CPS-125), or 10 modules. Blank smoke plexiglass front panel included. Includes electronics to fully buffer all necessary buss signals. All hardware is included. Size is  $5\frac{1}{4}$  x 19 x 14 inches. .-. .-.

KIT EMC-125K	. 279.95*
Manuals only EMC-125MK	10.00*
ASSEMBLED EMC-125A	. <b>425.00</b> *
Manuals only EMC-125MA	5.00*

CPS-125 COMPUTER SYSTEM POWER SUPPLY This modular plug-in power supply provides the JUPITER II system buss with five semi-regulated voltages. After final regulation the available outputs are +5V at 5A, +12V at  $\overline{2}$ A, +26V at 100MA, -5V at 18, -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.

KIT CPS-125K	149.95
Manuals only CPS-125MK	4.00
ASSEMBLED CPS-125A	180.00
Manuals only CPS-125MA	2.00

**EXC-125 EXTENSION CARD** Plugs into buss in place of module. Module then plugs into EXC-125 and is extended 7 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	24.95
ASSEMBLED EXC-125A 3	<b>35.00</b>

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 buss. 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	79.95
Manuals only CPU-125MK	25.00
ASSEMBLED CPU-125A	
Manuals only CPU-125MA	20.00

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") hexidecimal display of the system address buss. 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 buss. 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	89 <b>.</b> 95
Manuals only CFP-125MK	
ASSEMBLED CFP-125A	
Manuals only CFP-125MA	2.00

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 Eraseable 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 FOOO 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 dash number of control program detailed below and added ROM cost.

KIT SDM-125K	9.95
Manuals SDM-125MK	9.00
ASSEMBLED SDM-125A	5.00
Manuals SDA-125MA	4.00

#### SDM CONTROL EPROMS 2KB for serial devices (TTY) -1...... 200.00 Operators manual only SDM-M1 ..... 3.00 Copyrighted listings with SDM purchase . . . . . . . . 15.00

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	219.95
KIT 8KB MEMORY DMM-125K-8	. 329.95
Manuals only DMM-125MK	9.00
Additional 4KB RAM(for DMM-125K-4)RAM-125	5-4 110.00
ASSEMBLED 4KB MEMORY DMM-125A-4	325.00
ASSEMBLED 8KB MEMORY DMM-125A-8	435.00
Manuals only DMM-125MA	4.00

SMM-125 DUAL PORT STATIC MEMORY MODULE	module. The remaining half is available for custom
The static memory module will hold either 1KB or 2KB	interfaces. Includes 15 FT of 26 wire flat ribbon cable
of static. Low power high speed 2102 type memory. The	and connector.
address is selectable to any 2KB boundary. This memory	KIT PDI-125K84.95 *
may be write protected. A second read-only port on a	Manuals only PDI-125MK 8.00 *
back connector allows this memory to be used in such	ASSEMBLED PDI-125A
applications as CRT or graphics refresh. Takes one	Manuals only PDI-125MA
module space.	DDD 405 DUAY DADAYI DI DAMA INMDDDAGE
KIT 1KB SMM-125K-1	DPD-125 DUAL PARALLEL DATA INTERFACE
KIT 2KB SMM-125K-2	Same as PDI-125 data interface but with two completely independent interfaces.
Manuals only SMM-125MK	independent interfaces. 475.00 with, KIT DPD-125K
40.00	Manuals only DPD-125MK
ASSEMBLED 1KB SMM-125A-1	ASSEMBLED DP D-125A
ASSEMBLED 2KB SMM-125A-2	Manuals only DPD-125MA 5.00*
Manuals only SMM-125AK	
•	SRM-125 STATIC EPROM MODULE The SRM
SDI-125 SERIAL DATA INTERFACE (RS-232-C) The	module will hold from 1KB to 8KB of 2708 type eraseable
SDI module converts from parallel data to serial data for	and reprogrammable read only memory. The address is selectable to any 8KB boundary. The EPROMS are
communicating with any standard RS-232-C terminal or	priced separately.
data communications equipment. Provides functions:	1 1
RD, TD, DTR, DSR, CTS. 16 selectable baud rates are	<b>KIT SRM-125K</b>
provided by a crystal oscillator needing no adjustments.  Device address is selectable from FFOO to FFFF. Uses	ASSEMBLED SRM-125M 185.00 *
only one half of module: the remaining half is available	Manuals only SRM-125MA 4.00 *
for custom interfaces.	EPROMS 1KB each, needs PGM-125 programmer to
KIT SDI-125K	program and UVS-54 ultraviolet lamp to erase.
Manuals only SDI-125MK	ROM-888.00
ASSEMBLED SDI-125A	
Manuals only SDI-125MA	PGM-125 EPROM PROGRAMMER MODULE The
15 FT cable to female 25 pin connector for data terminals	PGM module under JUPITER II software control will
SDC-15F	program 2708 type EPROMS. Device address is select-
15 FT cable to male 25 pin connector for data	able from FFOO to FFFF. Takes one module space.  KIT PGM-125K
communications equipment SDC-15M 14.95	Manuals only P GM-125MK
DSD-125 DUAL SERIAL DATA INTERFACE	ASSEMBLED PGM-125A
(RS-232-C) Same as single SDI-125 data interface but	Manuals only PGM-125MA 4.00
with two completely independent interfaces. Takes one	Ultraviolet lamp for erasing EPROMS
module space.	UVS-54
KIT DSD-125K134.95	
Manuals only DSD-125MK	BMS-125 BASIC MAINFRAME SYSTEM Fulfills the
ASSEMB L ED DSD-125A	basic requirements of a minimum system. Requires
Manuals only DSD-125MA5.00	addition of memory and I/0 interfaces. Includes: <del>SMC</del> -125.
	Therudes: -5MC-125 - CPS-125-
TTC-125 RS-232-C TO TELETYPE CONVERSION	<del>CPU-125</del>
KIT Converts model 33ASR teletype to RS-232-C compatible voltage interface. Mounts inside teletype unit	<del>CFP-125*</del>
and connects to internal 48 Volt supply. Included 15 FT	SDM-125-1
cable to mate with SDC-15F.	EXC-125
	KIT BMS-125K (Includes 10% Discount) 849.95
<b>KIT TTC-125K</b>	Manuals only BMS-125MK 47.00
ASSEMBLED TTC-125A	ASSEMBLED BMS-125A (Includes 10% Discount)
Manuals only TTC-125MA2.00	
	Manuals only BMS-125MA33.00
PDI-125 PARALLEL DATA INTERFACE The PDI	UMC-125 UNIVERSAL MODULE KIT The universal
module consists of two independent 8 bit data channels.	module provides all basic hardware necessary for
Tach channel may be selected for either input, output, or	building custom interfaces. Sockets, I/O Connectors,
cri-state data channel. Each channel also has one input	Additional voltages (+5V standard) and wire must be

and one output or two inputs connected for handshake

control and optionally connected to the interrupt

circuitry of the JUPITER II buss. Data channels are

buffered to drive 20 std TTL loads. Device address is

selected from FFOO to FFFF. Uses only one half of

iversal y for ectors, 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......32.00 Assembly Manual (optional) UMC-125MK . . . . . . . 5.00

War of side at 120 5 on 12 for one row (8 MAY) of
voltage of either +12, -5, or -12 for one row (8 MAX) of
ICS. Additional rows of the same voltage must be
ordered separately.
KIT +12 VOLTS VMP124.50
KIT +12 VULTS VMP12
KIT -12 VOLTS VMN12
KIT -5 VOLTS VMN5 4.50
ADDITIONAL ROW HARDWARE FOR ADDITION-
AL VOLTAGES.
<b>KIT</b> (One per row) <b>UMV-1</b> 1.50
I/O CONNECTORS
Includes male card connector, female flat cable connector
and 15 FT of ribbon cable.
KIT 10 PIN 10C-10K
KIT 20 PIN 10C-20K
KIT 26 PIN 10C-26K
KIT 34 PIN 10C-34K 20.00
KIT 50 PIN 10C-50K 28.00
SOCKETS KIT
Maximum of 32 18 pin sockets per module. Three-level
gold plated, snap-in fit construction.

ADDITIONAL VOLTAGE KITS Provides additional

#### TOOLS

<b>HAND</b>	WIRE	WR	APP	ING	TOOL

Fine hardened steel		
HWW-1	 	20.00

KIT 24 PIN SOC-24K...... 1.10

KIT 40 PIN SOC-40K ..... 1.25

#### ELECTRIC WIRE WRAPPING GUN

24 pins takes space of 3 18 pin sockets.

40 pins takes space of 5 18 pin sockets.

Professional model heavy duty Wire Wrap gun. Includes bit and sleeve.

Includes bit and sleeve.

<b>EWW-1</b>				 							•	•	•			•	•	٠	•	L	SV.	v	,
		 	_	 	_	_	_	 _	 	_													

#### HAND UNWRAPPING TOOL

#### GROUND CLIP INSERTION TOOL

Makes kit building	
GCI-1	 2.50

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

#### 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.

Manuals only ASM-125M	20.00
BASIC FOR JUPITER II	
Requires 8KB system and system monitor.	

### Order your complete JUPITER II system NOW and SAVE 10% on total price.

Terms are cash with order. BankAmericard or Master Charge. COD orders require 50% down.

#### Exclusive KIT-A-MONTH club time payment plan Order your JUPITER II computer system NOW and SAVE 5%.

Send payment for first module only. We will send you your first module (kit or assembled). Each month you send in your payment for the next month and we will send you the next module on your order. You pay no interest or financing charge and you do not incur any delivery delays once you start receiving your system. You subtract 5% of total system price from last module payment. Terms are cash with order, BankAmericard or Master Charge. If you send in an early payment, we will make an early shipment. A late payment will result in a late shipment. After 60 days past due on any month, the balance of the order is cancelled. All payments must be made within 12 months.

Length	Color		25 PKG	50 PKG	100 PKG	250 PKG	500 PKG	1000 PKG
31/2	Black		.40	.65	1.05	2.10	4.00	7.60
4	Red	e	.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	[윤	.44	.73	1.21	2.50	4.80	9.20
6	White	[4]	.45	.75	1.25	2.60	5.00	9.60
61/2	Brown		.46	.77	1.29	2.70	5.20	10.00
7	Orange	1 1	.47	.79	1.33	2.80	5.40	10.40
71/2	Purple		.48	.81	1.37	2.90	5.60	10.80
8	Gray	1	.49	.83	1.41	3.00	5.80	11.20

100.00

<sup>\*</sup>Delivery 90 days ARO Delivery 60 days ARO Effective January 1, 1976. Subject to change without notice.

