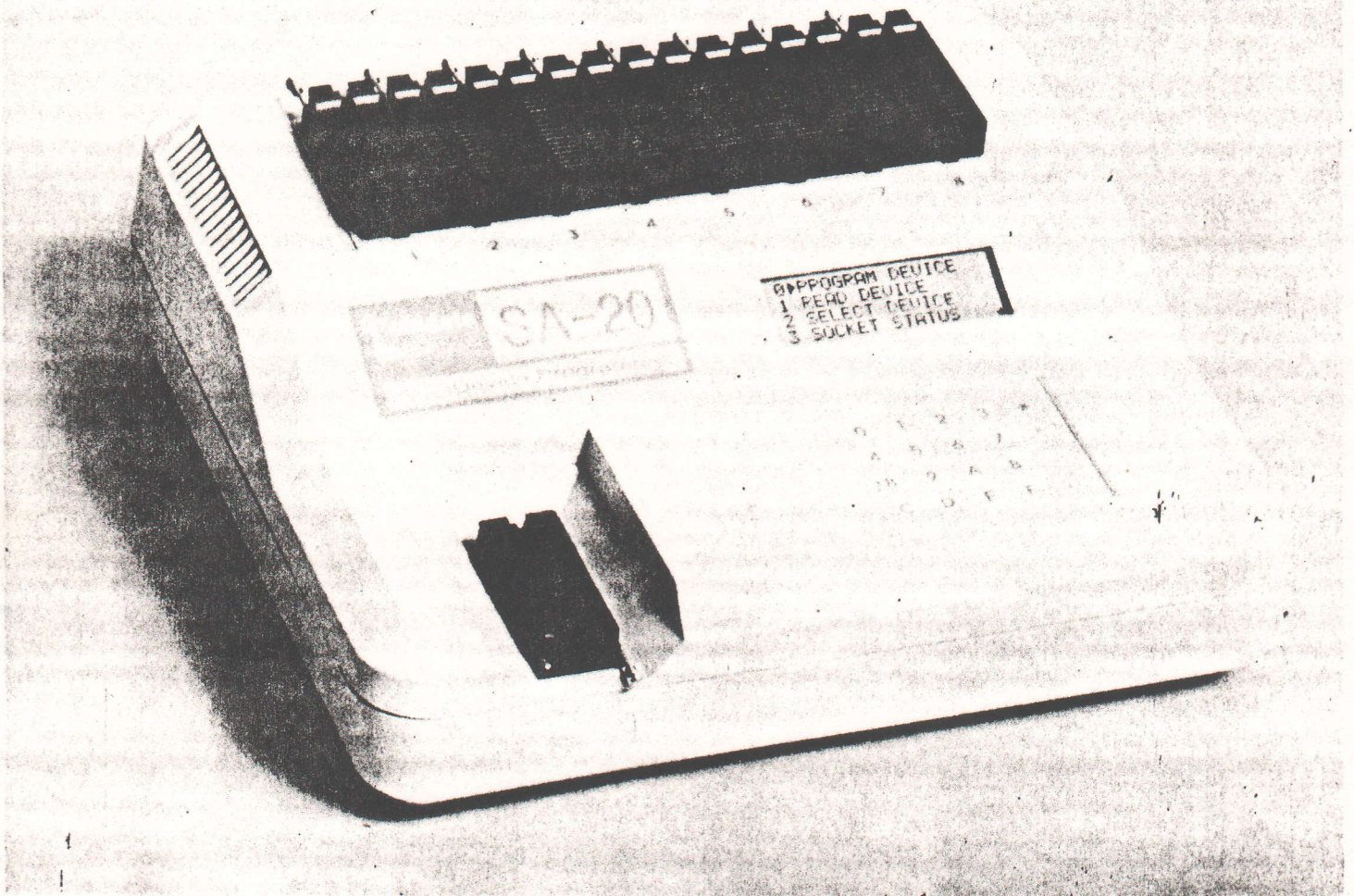


SA-20 EPROM PROGRAMMER

Stand-Alone 8 Gang Programmer



- Programs 2716, 2732, 2764, 27256, 27512, 27C010, 27C020 and 27C040
- Quick Pulse Algorithm (programs eight 1M EPROMS in 40 seconds)
- .3/.6" ZIF socket, RS232, Parallel I/O
- User upgradable to 32 Megabit
- 32K internal Flash EEPROM for easy upgrades
- Binary, Intel Hex and Motorola S formats
- Split and shuffle 16 & 32 bit
- 100 user definable configurations, 100 user definable macros
- Completely menu-driven operation
- 20X4 adjustable LCD Display
- 20 Key Tactile Keypad (non-membrane)
- Completely stand-alone or computer driven
- A9 Intelligent Identifier
- Memory editor functions
- Free PC software included
- Doubles as printer buffer when needed
- Complete technical manual and schematic
- Toll-Free technical support by phone
- Full 1 year warranty

Micro Manufacturing, Inc.
535 Old Nashville Hwy.
Lavergne, TN 37086

TOLL FREE 1-800-227-6136
IN TN (615) 793-5510
FAX (615) 793-5512

SA-20 EPROM Programmer Fact Sheet

- **Completely stand-alone or PC driven** — Programmer has built in computer which allows it to operate without a computer. Owners of PC computer may interface with our programmer through their parallel or serial port. All other computers (Apple, Commodore, CP/M, etc.), while not directly supported, may also interface with our programmer through a standard RS232 serial port.
- **20X4 Line LCD Display** — LCD display is easy on the eyes and easy to read. The viewing angle of the LCD display can also be adjusted.
- **20 key Tactile Keypad** — Non-membrane keypad includes all necessary keys for stand-alone operation.
- **User Upgradable to 32 Megabit EPROMS** — Built in 32K internal Flash EEPROM for easy firmware upgrades. Upgrade request forms will be sent out to all registered users as new versions become available.
- **.3"/.6" ZIF Sockets** — Standard zero insertion sockets for ease of use.
- **RS232, Parallel In and Out** — Serial and parallel connector built into programmer. Allows PC users to easily interface their computer with our programmer. Serial communications rate between PC and programmer is up to 115.2K baud. The SA also doubles as a printer buffer when needed.
- **Binary, Intel Hex and Motorola S formats** — All popular programming formats are supported.
- **Quick Pulse Algorithm** — Allows user to program eight 1 Megabit EPROMS in 40 seconds.
- **A9 Intelligent Identifier** — This method of selecting device type reads a binary code from the device that tells the SA the size, manufacturer, and programming algorithm of the device.
- **1 Megabit of DRAM** — Each SA programmer comes, from the factory, able to burn up to 1M byte EPROMS. This 1M byte limit is easily upgradable by adding more RAM.
- **Split and Shuffle 16 & 32 bit** — The SA is capable of programming large EPROMS in smaller sets. Various options exist here and all are explained in depth in the SA manual.
- **100 User Definable Macros** — Macros are a collection of keystrokes that can be executed as if the keys were pressed on the SA's (or PC's) keypad. This powerful function allows you to automate repetitive tasks, making your SA easier and faster to use.
- **10 User Definable Configurations** — Allows users to preset various programming configurations such as LCD viewing angle, speaker volume, device types, macro information, set & split options, I/O ports, etc.
- **Memory Editor** — Built-in memory editor allows user to read in device and manipulate the program using the SA's memory editor functions. The editor allows users to fill, copy, search and manually edit any programming code.
- **Complete manual and schematic** — 100 page technical manual with tutorial allows new users to install and learn how to use the SA easily and quickly.
- **Toll-free tech support by phone** — All registered users receive free technical support for up to 1 year after date of purchase.

SA-20 EPROM Programmer Device List

The following list shows the devices that have been tested on the SA device programmer. Devices not shown are likely to work, although not specifically tested.

<u>GENERIC</u>	<u>AMD</u>	<u>ATMEL</u>	<u>EXEL</u>	<u>FUJITSU</u>	<u>HITACHI</u>	<u>INTEL</u>	<u>mitsubishi</u>
2716	2716	27HC64	2804A	2732	2716	2716	2716
2732	2716B	27C256	2816A	2764	2732	2732	
2732A	2732	27HC256		27C128	2732A	2732A	
2764	2732A	27C256R		27C256	2764	2764	
27128	2764	27C512R		27C512	27C64	2764A	
27128A	2764A	27C513			27128	P2764A	
27256	271228	27C513R			27128A	27128	
27512	27128A	27C010			27256	27128A	
	27256				27C256	27128B	
	27C256				27512	P27128A	
	27512				27C101	27256	
	27C512				27C301	27C256	
	27C010					27C256-V	
						27512	
						27513	
						27010	
						27011	
						28F256	
<u>MOTOROLA</u>	<u>NAT. SEM.</u>	<u>NEC</u>	<u>SEEQ</u>	<u>SIGNETICS</u>	<u>TEXAS INST.</u>	<u>TOSHIBA</u>	<u>WAFER SCALE</u>
68766	2716	2716	2764	27C64A	2732A	2764A	57C49
	27C16	2732	27128	27C256	27C32	27128	
	27C32	2732A	27C256	27HC641	2764	27128A	
	27C32B	2764	2804A		27C64	27256	
	27C64	27C64	2817A		27C128	27256D	
	27C64B	27128	2864		27C256	57256D	
	27CP128	27C256	28C64		27C512	57256AD	
	27C128B	27C256A	28C256		27C101	27C512	
	27C256	27C512				571000	
	27C512	27C1000				571001	
	27C010	27C1001					
	27C020	27C2001					