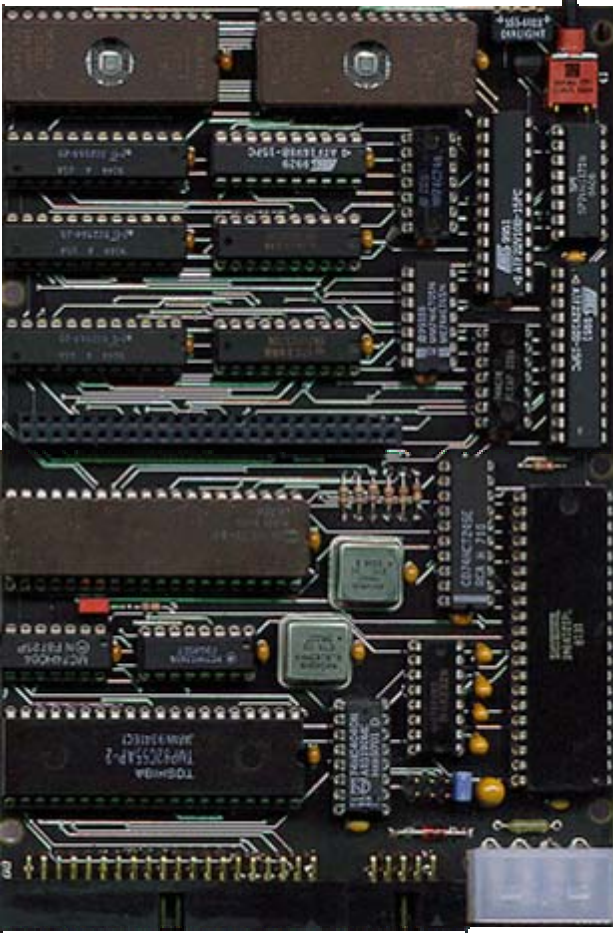


## BUILD YOUR OWN PDP-8 FROM A KIT!



No, it isn't a joke or a gimmick - the SBC6120 is a complete PDP-8/E compatible computer on a single PC board. The SBC6120 contains a Harris HD6120 CPU chip, 64KW of RAM memory, 32KW of EPROM, a console terminal interface, and an IDE/ATA disk

controller. The SBC6120 PC board measures just 4.2 by 6.2 inches, and it is the perfect size to piggy back on top of a standard 3½" disk drive. Total power consumption for the SBC6120 is approximately 1 watt.

The Harris HD6120 CPU chip is the second generation "PDP-8 on a chip" and was used in Digital's DECmate-I, II, III and III+ "personal" computers. The console interface in the SBC6120 is implemented by two GALs and is completely KL8/E compatible. It has none of the limitations and compatibility problems suffered by the HD6121 console implementation used in the DECmates.

The BTS6120 firmware stored in the 32KW EPROM allows for programs or disk images to be downloaded via the serial port and provides advanced debugging commands including a disassembler, single step with trace, and the ability to set break points. BTS6120 also supports IDE/ATA disk handler and bootstrap functions for OS/8, as well as disk partition management functions.

The SBC6120 can run all standard DEC paper tape software, such as FOCAL-69, with no changes. Simply use the ROM firmware on the SBC6120 to download FOCAL69.BIN from a PC connected to the console port, start at 200<sub>8</sub>, and you're running. OS/278, OS/78 and, yes - OS/8 V3D or V3S - can all be booted on the SBC6120 using an IDE disk as a mass storage device.

### Let us help you build your own SBC6120...

- SBC6120-2E Bare PC Board Only .....\$25**
- SBC6120-PK1 Partial Kit #1 .....\$115**
  - Includes PC board, HD6120 CPU chip, and three 64Kx4 SRAM chips
- SBC6120-PK2 Partial Kit #2 .....\$175**
  - PC board, HD6120 CPU chip, and three 64Kx4 SRAM chips
  - Preprogrammed EPROMs with the BTS6120 firmware
  - Preprogrammed GALs for memory and IOT decoding
  - Special 50 pin stacking SBC6120 expansion bus connector
- SBC6120-FK Full Kit .....\$350**
  - Contains everything you need to build a complete SBC6120!

More than forty SBC6120 kits have been successfully built. To learn more about the SBC6120 and our other Gizmos, visit

[www.SpareTimeGizmos.com](http://www.SpareTimeGizmos.com)

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