Tandy Radio Shack

TRS-80 Model II CPU Module

This was the main CPU processing board in the Model II. There were 4 revisions to this board: A, B, C and D.

It supports the data processing activities, DMA operations, mode 2 vectored interrupts, dual serial I/O channels, system timing signals and bootstrap firmware with self-test diagnostics.

This board contains the

* Z80A 4MHz CPU Chip
* Z80A DMA Chip
* Z80A SIO Chip
* Z80A CTC Chip
* 2716 ROM Chip

Tandy Radio Shack

TRS-80 Model II FDC - Early Style

This board is the floppy disk and printer control module in the Model II. This is the early style that contains 2 separate channels: one for the internal disk drive and one for the external disk drive expansion unit.

It provides a standard Shugart 8” floppy disk interface and a Centronics parallel printer interface. The floppy disk interface supports both single and double density encoding schemes. The printer interface is fully compatible with the various Radio Shack line printers as well as other printers which conform to the Centronics parallel standard.

This board contains the

* FD1791 Floppy Disk Controller Chip
* Z80 PIO (Parallel Interface Controller) Chip

Tandy Radio Shack

TRS-80 Model II FDC - Late Style

This board is the floppy disk and printer control module in the Model II. This is the later style found in the later Model II and the Model 16.

It provides a standard Shugart 8” floppy disk interface and a Centronics parallel printer interface. The floppy disk interface supports both single and double density encoding schemes. The printer interface is fully compatible with the various Radio Shack line printers as well as other printers which conform to the Centronics parallel standard.

This board contains the

* FD1791 Floppy Disk Controller Chip
* Z80 PIO (Parallel Interface Controller) Chip

Tandy Radio Shack

TRS-80 Model II Video/Keyboard Interface - Early Style

The Video/Keyboard Interface board has two major functions. One is to control a built-in, 12-inch, high-resolution video monitor capable of displaying 24 lines of 80 normal characters or 40 expanded characters in both upper and lower cases. The other function is to "CONTROL" a 76 key keyboard that includes features such as "control' "escape", "hold", "repeat" and two software-programmable special function keys.

This board contains the

* MC6845 CRCTC Chip
* 2K Video RAM
* Video and Keyboard Connectors

Tandy Radio Shack

TRS-80 Model II Video/Keyboard Interface - Late Style

The Video/Keyboard Interface board has two major functions. One is to control a built-in, 12-inch, high-resolution video monitor capable of displaying 24 lines of 80 normal characters or 40 expanded characters in both upper and lower cases. The other function is to "CONTROL" a 76 key keyboard that includes features such as "control' "escape", "hold", "repeat" and two software-programmable special function keys.

This board contains the

* MC6845 CRCTC Chip
* 2K Video RAM
* Video and Keyboard Connectors

Tandy Radio Shack

TRS-80 Model II Memory Board

64K RAM

The memory board provides all memory services in the Model II. The Model II memory architecture supported eight banks of two 32K pages for a total possible 512K random access memory.

This board provides a fully buffered interface to the Model II bus, the main memory array of 16K DRAM chips, timing for MUX and CAS, paging and bank select features.

Tandy Radio Shack

TRS-80 Model II Memory Board

32K RAM

The memory board provides all memory services in the Model II. The Model II memory architecture supported eight banks of two 32K pages for a total possible 512K random access memory.

This board provides a fully buffered interface to the Model II bus, the main memory array of 16K DRAM chips, timing for MUX and CAS, paging and bank select features.

Tandy Radio Shack

TRS-80 Model II 144K Memory Board

This memory board provides additional RAM above the typical 64K RAM found in the Model II. This board provides between 16K and 144K. Typically, this board was included with the ARCNET installation, which required an additional 16K above the standard 64K, or was sold and used as additional memory storage for VISICALC.

Tandy Radio Shack

TRS-80 Model II 8MB Hard Drive Interface

This board provides an interface for the early Tandy Radio Shack 8MB Hard Drive. It is also known as the “Type 1” interface. It allows the Model II bus to communicate with the hard disk controller board. It contains a Z80 CTC, 16K DRAM, data bus buffers, address buffers and control line buffers.

Tandy Radio Shack

TRS-80 Model II “Type 2” Hard Drive Interface

This board provides an interface for the Model II to all Tandy Hard Drives other than the 8MB Hard Drive. It is commonly referred to as the “Type 2” interface. It provides the interface circuitry needed to communicate with the hard drive controller board found in the primary Tandy Hard Drive enclosures.

Tandy Radio Shack

TRS-80 Model II “Type 4” Hard Drive Controller

This board provides an MFM interface for ST506/ST412 hard drives. This board was typically found only in the Model 16B and Model 6000. It is commonly referred to as the “Type 4” controller. It differs compared to the Type 1 and Type 2 interfaces in that this board combines the interface and controller in one board.

Tandy Radio Shack

TRS-80 Model I6 Multi-Terminal Interface

The Multiterminal Interface Board (26-6013) allows the Model 16/16B to interface with up to three additional terminals. This capability, combined with the XENIX OS multitasking capability, allows up to six independent operators to have access to the features contained in a single Model 16/16B. This results in a cost savings per terminal and the added advantage of a shared data base.

Tandy Radio Shack

TRS-80 Model II 4 Port Multi-Terminal Interface

This board was typically only found in the VIS. It allowed 4 modems to interface with the system. A total of 4 of these boards could be installed in the VIS for a total of 16 modems for remote client connections.

Tandy Radio Shack

TRS-80 Model 16 6 MHz MC68000 CPU Board

This is the early large-format MC68000 board. It contains all the components to run 68000 applications except for the memory and I/O systems. This was the first 68000 board found in the original Model 16. It ran at 6MHz and supported up to 1MB of RAM. The Model 16 was initially released with TRSDOS-16. Tandy was originally planning to run UNOS on this system but, this was scrapped at the last minute and as a result Microsoft XENIX became the main multi-user operating system on the platform.

Tandy Radio Shack

TRS-80 Model 16B 6MHz MC68000 CPU Board

This is the later small-format MC68000 board. It contains all the components required to run 68000 applications except for the memory and I/O systems. It ran at 6MHz and supported up to 1MB of RAM. This was the second 68000 board that debuted in 1983 in the Model 16B. The Model 16B was the biggest selling Unix based workstation in the world by volume in 1984.

Tandy Radio Shack

Tandy 6000 8MHz MC68000 CPU Board

This is the last MC68000 board that was found in the Tandy 6000. It contains all the components to run 68000 applications except for the memory and I/O systems. This was the third 68000 board that debuted in 1985 in the Tandy 6000. It provided a speed upgrade over the previous 68000 board found in the Model 16B. It ran at 8MHz and supported up to 1MB of RAM.

Tandy Radio Shack

Tandy 6000 8MHz MC68000 CPU Board with MMU

This is a factory modified 8 MHz 68000 CPU board. This board has the later optional MMU upgrade which allowed the computer to use up to 4MB of user RAM in XENIX. It was a rare factory upgrade. Only a few hundred of these were sold.

Tandy Radio Shack

Tandy 128K/256K MC68000 RAM Board

This is the first MC68000 memory board found in the Model 16 and Model 16B. It allowed either 128K or 256K configured in 4 banks of 64K DRAM chips. Multiple boards could be installed for up to 768K of RAM for XENIX.

Tandy Radio Shack

Tandy 512K/1MB MC68000 RAM Board

This is the second version of the MC68000 memory board found in the Tandy 6000. It could be configured with 512K or 1MB RAM using 256K DRAM chips. It supported hardware parity checking but this feature was rarely installed.

Bob Snapp

2MB 68000 Memory Board

Bob Snapp was a prolific third-party provider of Tandy XENIX related software and hardware modifcations. He released this modified Tandy 128K/256K memory board that supports 2MB of RAM. The RAM above 1MB was typically used as a Ramdisk or for additional swap space in XENIX.

Tandy Radio Shack

Bernoulli Disk Cartridge Interface

This interface board allowed a Model 16 or Tandy 6000 to utilize the Tandy Disk Cartridge system. This was a rebadged iOMEGA Bernoulli drive that was sold in 10MB and 20MB versions. It provided robust off-line backup capability for XENIX based Tandy computers.

Tandy Radio Shack

TRS-80 Model II ARCNET Network Board

This board provided ARCNET networking facilities for the Model II. It was provided with a server operating system called ARCDOS that allowed a network of Model II computers to share filesystems and printers. It was commonly used in schools and mid-sized offices.

Tandy Radio Shack

Tandy 6000 VIANET Board

This is a modified Tandy ARCNET board from the collection of Frank Durda IV. Frank was the engineer that worked on integrating Tandy XENIX with VIANET in the Tandy 6000. It is suspected that the modifications on this board are those that were applied to support VIANET. The VIANET support was never officially released by Tandy.

Pickles & Trout

CCB-II Clock Board

The CCB-II provides the following functions for a TRS-80 Model II:

* A Clock with hour, minutes, second
* A Calendar with day, day of week, month, year
* An audio alarm

Corvus HD Interface

This board allows a Model II to interface with the Corvus line of hard drives.

A computer and a computer

Description automatically generated with medium confidence

Henderson Data Systems

Unknown Memory Board

Part of a collection that ran OASIS.

Unknown I/O Board

Part of a collection that ran OASIS. Not much else is known. Any ideas?

Veritas DPO

Dual Processor Option Board

This board was sold by Veritas Technology in 1984. This is a self-contained 8088 computer on a single board that uses the Z-80 based Model II only for I/O. The only working operating system known to run on this board was a customized beta of CP/M-86 of which no known copies exist. In testing, it ran most CP/M software at least twice as fast as a stock Model II running standard Z-80 CP/M. Support for MS-DOS was planned but it is not known if it was ever completed. The board did not function properly in the new Model 12 and as such was eventually abandoned by the manufacturer.

PC60004MR1

This is a third party aftermarket high capacity memory board for Tandy 6000 XENIX.

Tandy Radio Shack

TRS-80 Model II Graphics Board

This was an optional board that provided 640 x 240 pixel monochrome high resolution graphics capability to the Model II. It connects to the standard video board via 2 ribbon cables and also requires a 2 chip swap between the boards. Only a few software titles were released to take advantage of this board.