

Using the Z67-IDE and Z67-IDE+ With Your Heath Computer

The HDOS Operating System supports but does not require that the computer run an H19 Terminal. Some of the programs that many may want to run in HDOS **DO** require an H19 terminal to use the Function Key Codes to operate. For example, the PIE full screen editor uses the H19 Function Keys extensively in its operation.

But on QuikStor-CP/M, the H19 is assumed and is **REQUIRED** to be present for proper operation. The Hard Disk partitioning software (SASIX) and the Software Boot Code menu both require an H19 terminal on the H8 or an H89 computer (which has an H19 terminal by default).

The Heath Z67 SASI controller has an eight position DIP switch where four bits are assigned to device 0 (the Z67 hard disk) and four bits to device 1 (the Z67 8" floppy drive). This switch can be read by software as part of the system boot.

When QuikStor designed their system, hard drive technology had advanced and larger drives were available. Heath planned but never supported booting HDOS from the hard disk. Since they were building their system on the Heath SASI controller hardware and being aware of the boot selector switch, QuikStor designed their CP/M OS to support two hard disks and up to 15 partitions on a hard disk (0 through 14). The Z67 SASI controller boot selector DIP switch uses four bits for device 0 and four bits for device 1. The QuikStor system reads the switch and boots the selected partition (0 through 14). If the switch is set to fifteen (0FH), then it polls the H19 terminal to determine the baud rate and sends a Software Boot Code Menu to the screen for the user to select the partition to boot. This menu uses the H19 function keys for the partition selection process.

When running the Z67-IDE+ on an H8, Norberto has implemented ports 270Q and 274Q to be used with his version of the H8-Z67 controller card. By running the Z67 card on port 274, both ports 170Q (H37) and 174Q (H17) can be populated with the floppy controller cards. Heath Operating Systems and QS-CP/M only support two disk types, so the Z67-IDE or Z67-IDE+ disk boot can only host one of the two floppy systems. But we can boot multiple partitions and have access to either floppy type by booting the appropriate partition. This is accomplished in HDOS by not defining a default boot partition when exiting the Heath PART Utility after partitioning the hard disk. In QuikStor-CP/M, setting all four DIP switches for the hard disk to ON accomplishes the same result. When one boots the hard disk and no partition is defined as the boot partition, a Software Boot Code screen is presented for the user to select the partition to boot. This allows the user to boot multiple partitions on a hard disk.