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**Date** : Tue, 13 Feb 1990 17:47:52 GMT  
**From** : crash!mwilson@nosc.mil (Marc Wilson)  
**Subject**: Kaypro 4 ('84) Hardware

In article <19697@ea.ecn.purdue.edu> wieland@ea.ecn.purdue.edu.UUCP (Jeffrey J Wieland) writes:  
 >In article <1096@mindlink.UUCP> a577@mindlink.UUCP (Curt Sampson) writes:  
 >>On my Kaypro 4 (1984 vintage) I have a long header (connector) that is much  
 >>like the floppy drive header (for a ribbon cable), but right above it. Does  
 >>anyone have any idea what this is for? Thanks.  
 >>  
 >> -CJS  
 >  
 >It's for the SASI interface for the Kaypro 10's. The 10's used the same  
 >motherboard. There should be numerous empty spots on you motherboard  
 >near the SASI connector -- those are for the logic to implement SASI.

No, no, NO! There has NEVER been a Kaypro that speaks SASI! >  
 All that conector is is a parallel port ( no, it doesn't go through the  
 PIO ). Actually, it's more or less just an extension of the Z80.

Kaypro made two motherboards that support the hard drive interface.  
 These were the 81-180 board ( the Kaypro-10 board ), and the 81-185  
 board ( the 2/84-4/84-2X-Robie board ). The 81-185 board has several  
 different part numbers, depending on which machin it was installed in,  
 whether or not it had the real-time clock installed, the modem installed,  
 etc. The 81-185 board is also where the dreaded Universal ROM made it's  
 appearance. Not to worry, the same board can also run the nornal 81-302  
 ROM.

From part # 1484-F, Kaypro Technical Manual, September 1985:

Model Name	CP/M version	Mainboard	ROM revision
2/84	2.2g	81-294	81-292A
4/84	2.2g	81-184/85	81-292A
4/84+88	2.2g	81-184/85	81-292A
2X	2.2g	81-294	81-292A
	2.2h		
4X	2.2g	81-297	81-326E
	2.2h		
Robie	2.2g	81-296	81-478A
	2.2h		
10	2.2g	81-180	81-302C
	2.2h		
2X/modem/RTC	2.2u1	81-580	81-478A
10/modem/RTC	2.2u1	81-582	81-478A
New 2	2.2u1	81-294	81-478A
1	2.2u1	81-294	81-478A

The table is actually somewhat inaccurate. The K10 will run ANY  
 version of Kaypro CP/M ( except for u1 ), as long as you MOVCPM a 60k  
 system.

The 81-478A ROM is the dreaded Universal ROM.

The 81-184/185/294/295/296/580/582 motherboards are all the SAME  
 motherboard, and they all support the HD. The best of these to have is

the 81-184/185, because it also includes the RTC and the modem. This motherboard is also known as the Universal Motherboard.

This is the board that is/was in my K4/84, which is now a K10/84. No soldering required. Just cables. You also need the 81-302 ROM, and the host board, and a WD1002-HD0 ( NOT the 1001 ). If you do have a WD1001, you have to re-assemble the ROM.

Any more questions? With Kaypro just up the coast from me, it's easy to get SOME questions answered. Unfortunately, they have NO ONE from the old days left ( that we could find ).

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Marc Wilson

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...!crash!pnet01!pro-sol!mwilson@nosc.mil

UUCP: [ cbosgd | hp-sdd!hplabs | sdcsvax | nosc ]!crash!mwilson

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