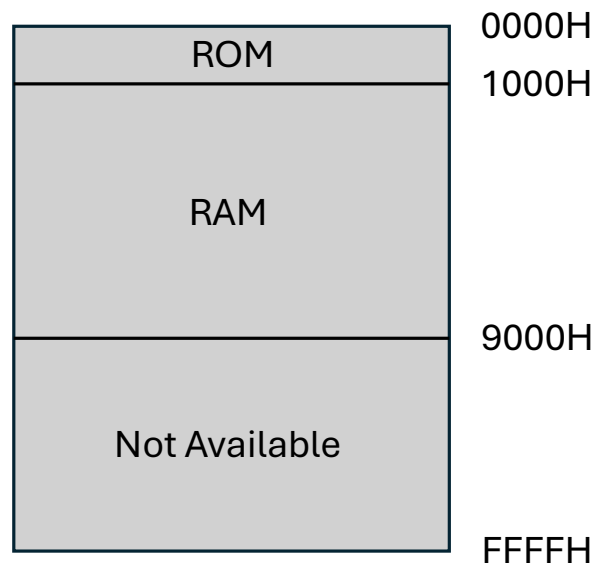# KS Wichit Z80 Microprocessor Kit

Modifying the PAL 16V8 for extra memory options
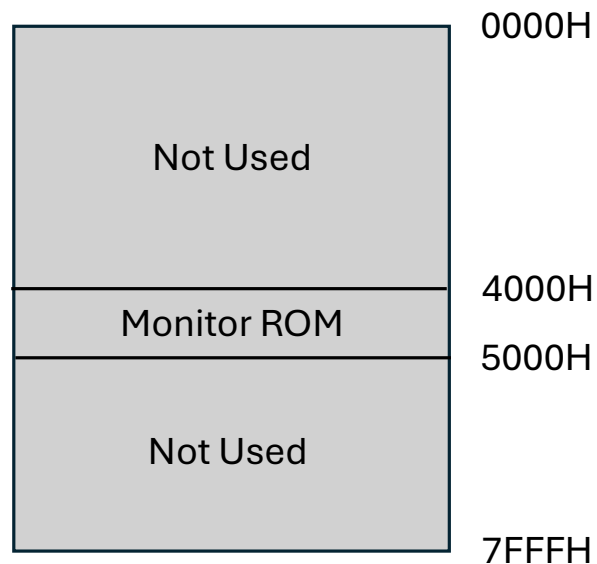
Purpose of the PAL 16V8

- Provides addressing for the 32K RAM and 32K ROM
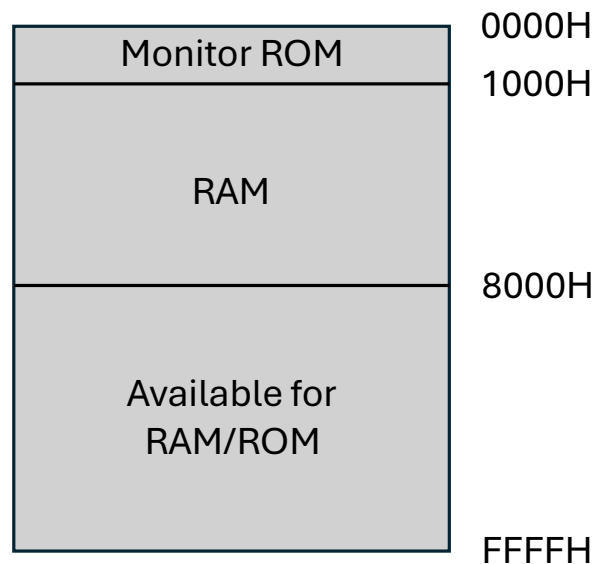- Default configuration as shipped is…

ROM	0000H
	1000H
RAM	
	9000H
Not Available	
	FFFFH

32K (27C256) ROM

- Provides monitor code for the Z80 Microprocessor Kit
- Monitor ROM address 4000H maps to 0000H on the Z80 Microprocessor Kit

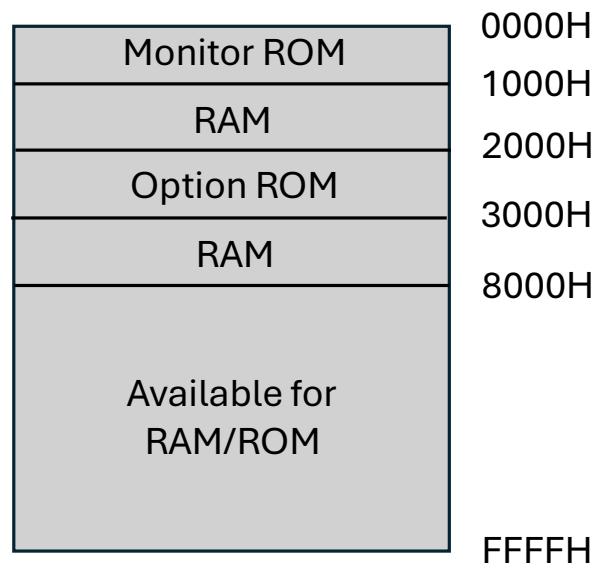|	
Not Used	0000H
Monitor ROM	4000H
	5000H
Not Used	
	7FFFH

Variant 1 - Z80KIT_28KB_RAM.PLD

- Reduces the upper limit of the RAM to 7FFFH
- Allows for additional 32K RAM/ROM from 8000H via expansion

Monitor ROM	0000H
	1000H
RAM	
	8000H
Available for RAM/ROM	
	FFFFH

Variant 2 - Z80KIT_24KB_RAM_4KB_OPT_ROM.PLD

- Reduces the upper limit of the RAM to 7FFFH
- Creates 2nd ROM addressing that mimics the MPF-1 option ROM

Memory Map	Address
Monitor ROM	0000H
RAM	1000H
	2000H
Option ROM	
	3000H
RAM	
	8000H
Available for RAM/ROM	
	FFFFH

Variant 2 - 32K (27C256) ROM

- Adds 4K for option ROM code
- Monitor ROM address 4000H maps to 0000H and
- Option ROM address 6000H maps to 2000H on the Z80 Microprocessor Kit

Not Used	0000H
Monitor ROM	4000H
Not Used	5000H
Option ROM	6000H
Not Used	7000H
	7FFFH