

MEMORY ASSIGNMENT

Vo Hieu Nghia

1.

Processor have 24bit address bus $\rightarrow 2^{24} = 16 \text{ MB}$

The total capacity of the memory (not including EEPROM): 2 MB Flash + 1 MB static RAM + 6 MB reserved flash + 3 MB RAM expansion + 2 MB reserved unspecified = 14 MB

Therefore, EEPROM can be extended up to: $16 \text{ MB} - 14 \text{ MB} = 2 \text{ MB}$

\Rightarrow The capacity that EEPROM can be extended: $2 \text{ MB} - 256 \text{ kB} = 2048 \text{ kB} - 256 \text{ kB} = 1792 \text{ kB}$

2.

Memory map:



