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1. What is the total amount of memory capacity for memory address  
00000020\_FFFFFFFFh ~ 00000010\_80000000h

$$20FFFFFFFh - 1080000000h = 107FFFFFFFh \text{ bytes} = 66GB$$

Total amount of memory is **66GB**

2. With PCI Bus width of 32 bits and running at maximum 33MHz, the maximum data transfer rate is going to be  
132 MBps (Mega Bytes per Second).

3. PCIe TLP maximum data payload transfer size is 1024 DW which is equal to 4 KB.