

SOM-4466 Application Note

Module: SOM-4466 ETX module

Description: IDE device will not be detected when users select IDE device to “Slave” mode

Details:

When users need to use the IDE function on SOM-4466 ETX module, and users select the IDE device to “Slave” mode, the IDE device will not be detected and will not be used by system.

Solution:

SOM-4466 only supports one IDE for each channel. And select the IDE device to “Master” is required.

Reason:

SOM-4466 EXT module uses JMD330 of JMicron IC chip for SATA bridge transfer to IDE interface. According to the specification of JMD330, if uses JMD330 bridge the SATA host and IDE drive the jumper selection of the attached IDE drive must be master. Refer below message from JMD330 specification.

6.10 Master-Only Operation in IDE drive

In legacy IDE framework, we can attach two IDE drives on the IDE cable. The two drives are master and slave correspondingly. But in SATA framework, we can only attach one SATA drive on the SATA port. From the SATA Host's viewpoint, the attached SATA drive is master. In order to meet the SATA framework, if we use JMD330 to bridge the SATA Host and IDE drive the jumper selection of the attached IDE drive must be master.