

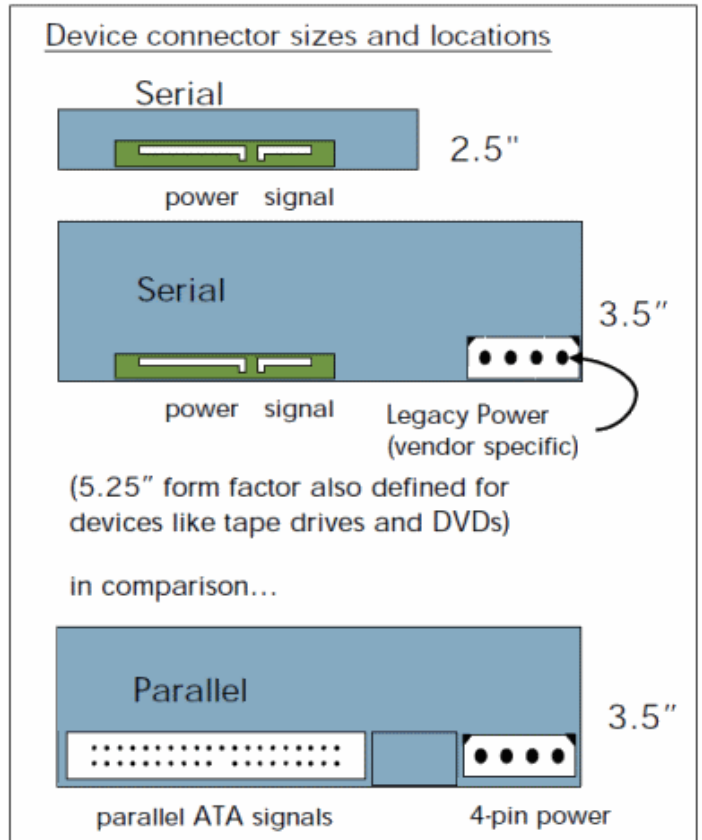
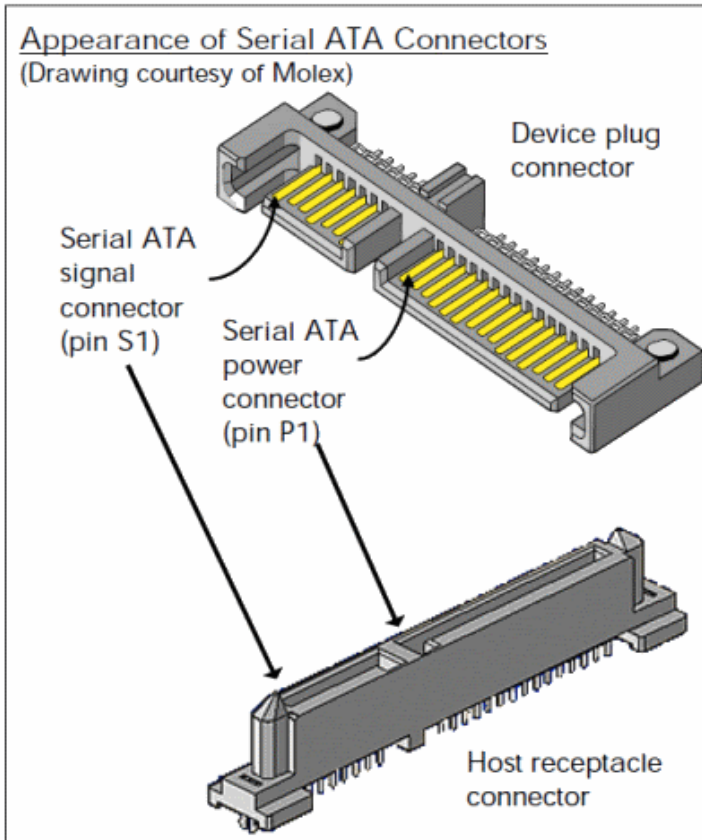
**SATA?SAS???????????**

Dual-Port????SAS????????????????????????????????????

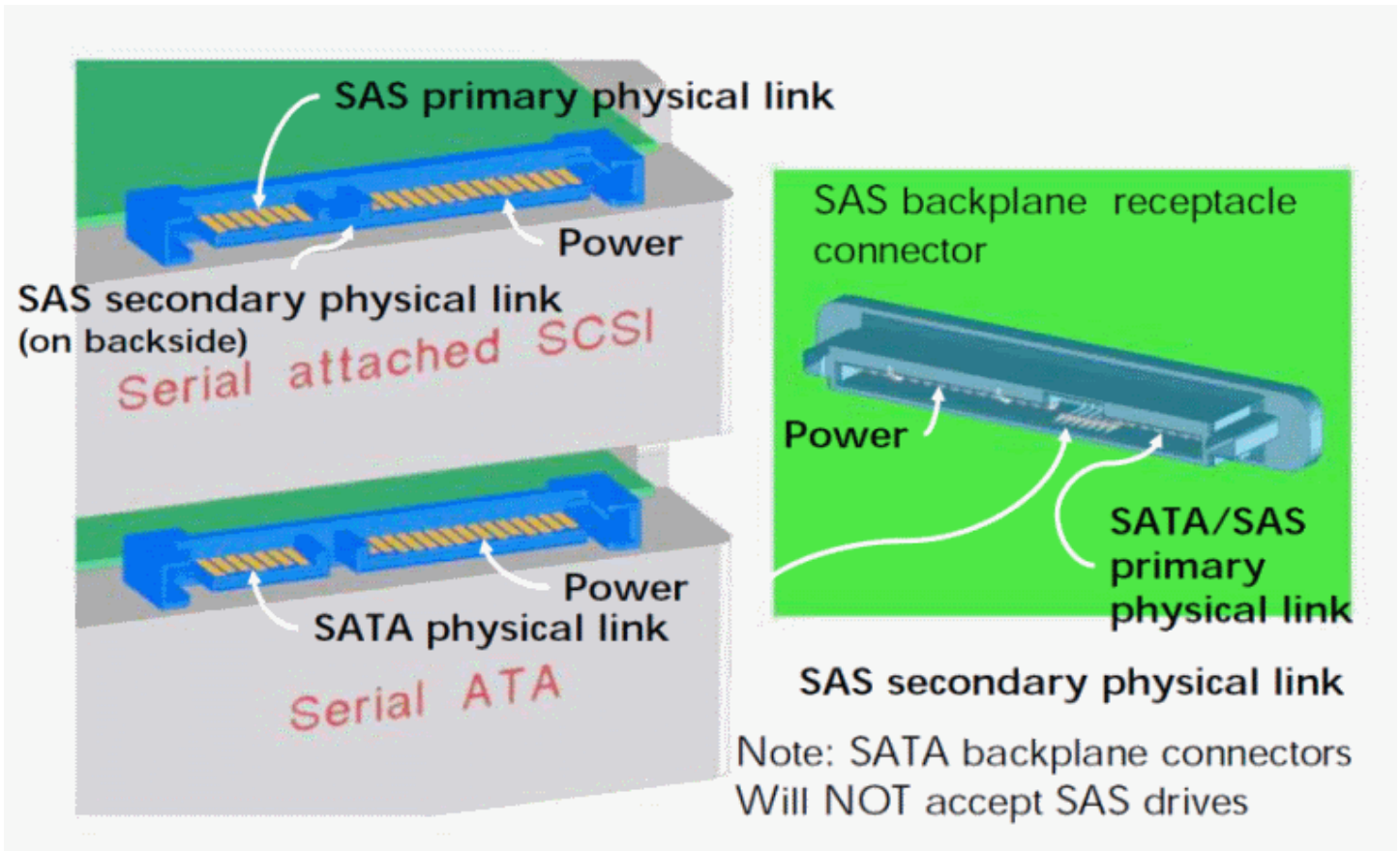
1.????

2.????

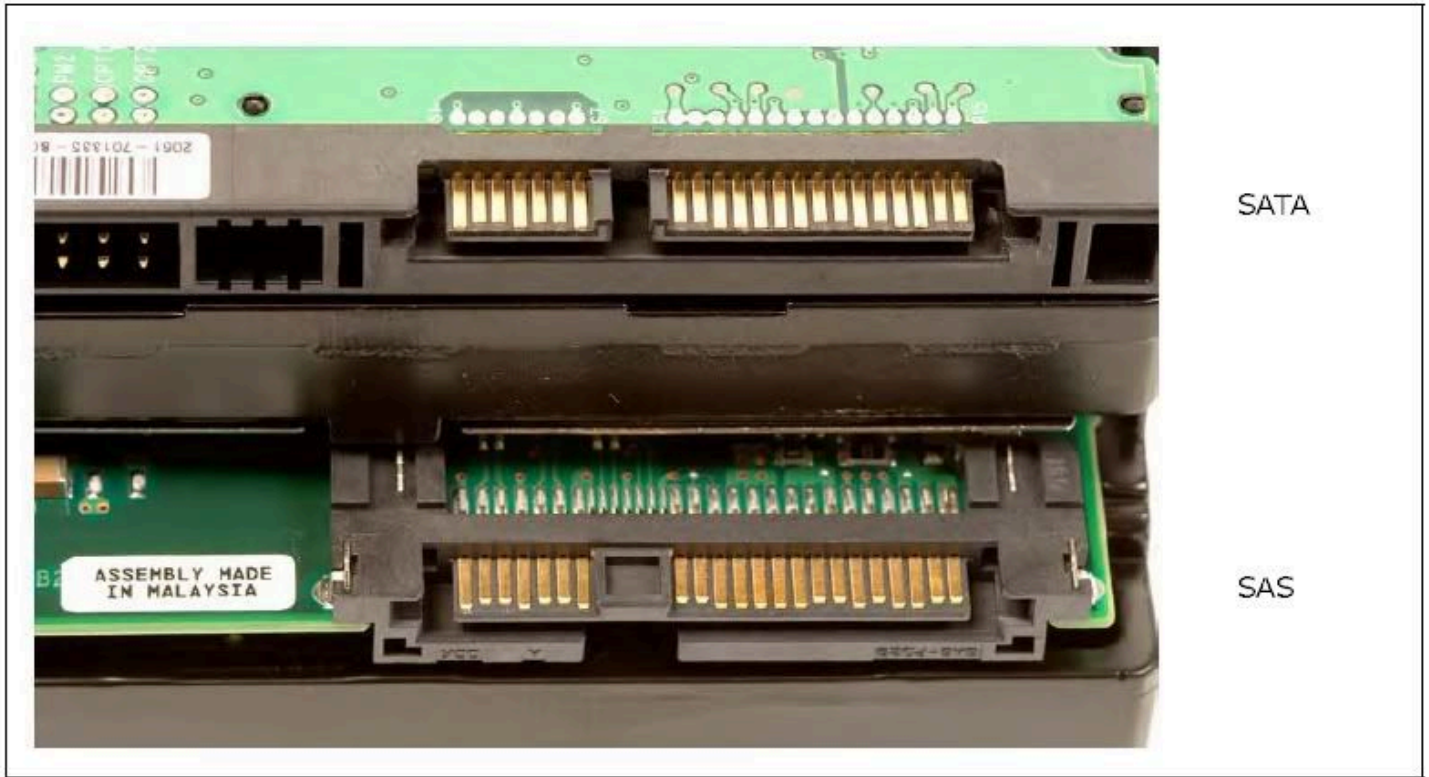
????????????????????SATA HBA??SAS Storage??SATA?protocol????????SAS protocol????????SATA?????



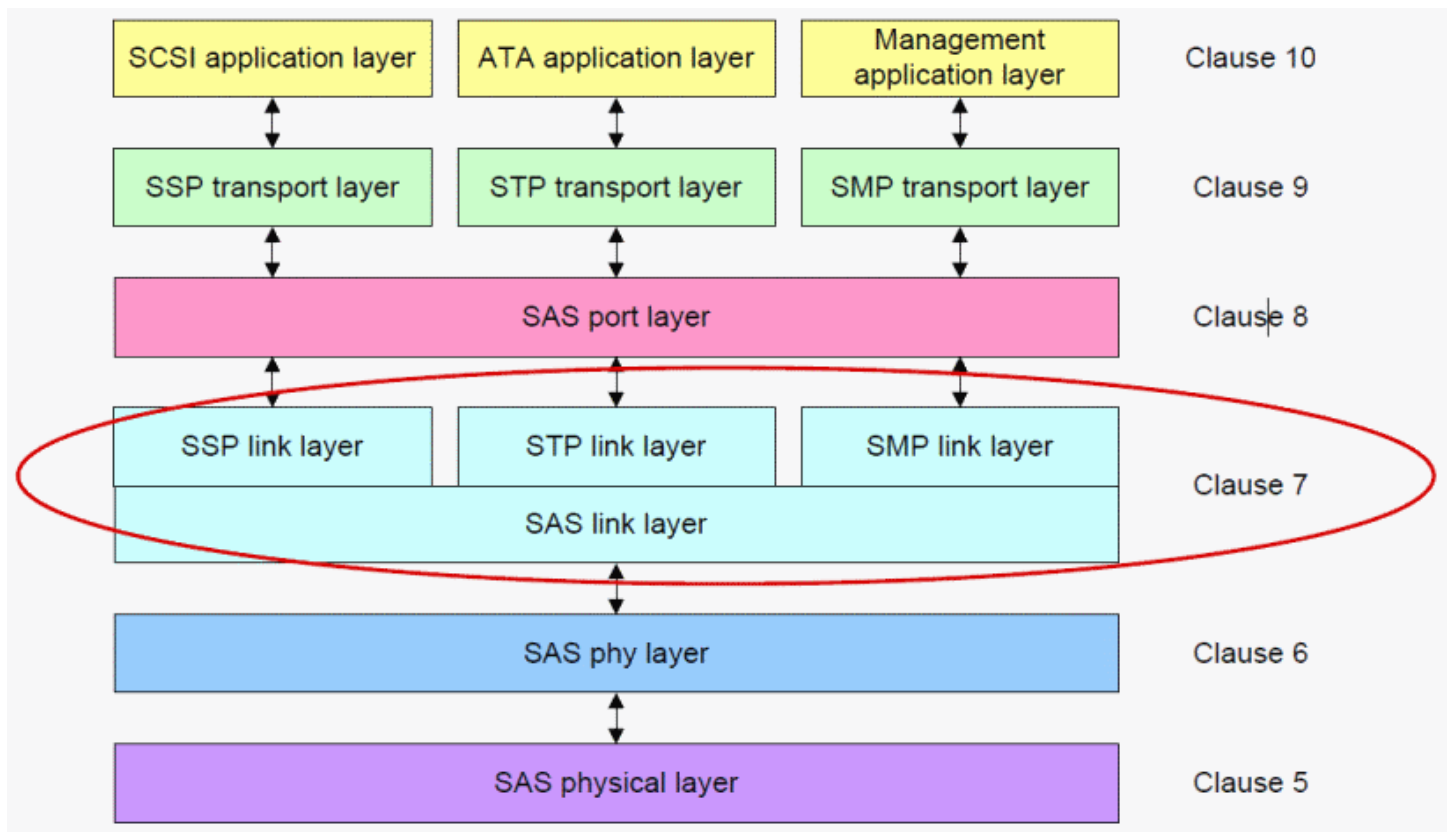
?Host Connector????????????sideband??signal connector?power connector????????????????SATA Connector  
??????4pins?12v??SAS Connector?????????



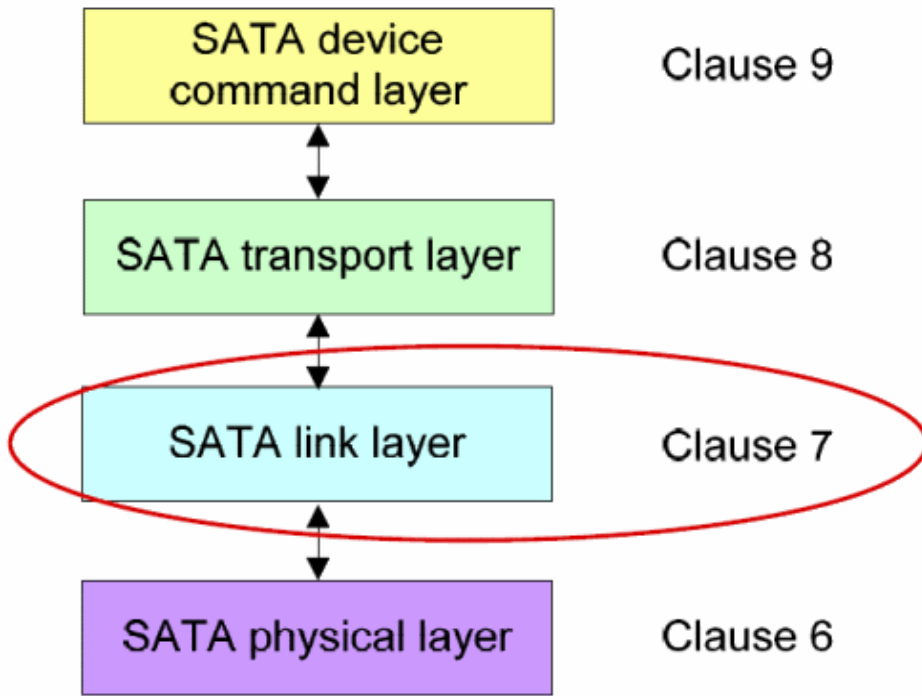
????SAS Drive Connector????SATA Drive Connector????????????backside???backside????????secondary link?  
????SAS Connector????signal connector???power connector???signal connector????primary?  
secondary????backside??SATA HBA??SATA Controller on Motherboard ?????SAS Port????????SATA  
cable????SAS Drive Connector????SAS HDD?SATA HDD?Connector????????????



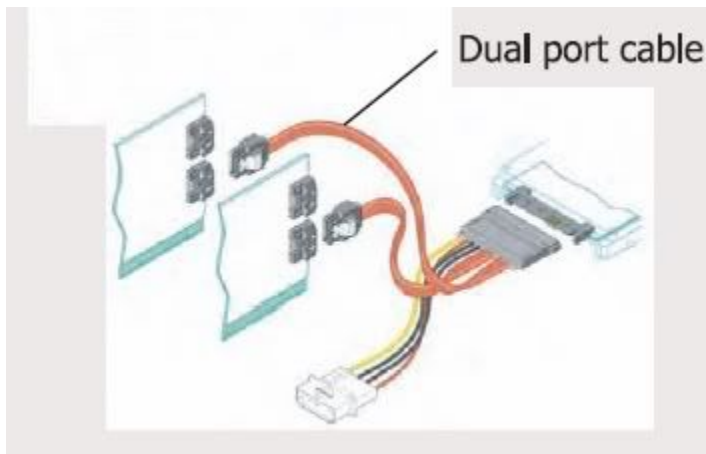
????????????????????SAS protocol??????



???SATA protocol?????



????SAS?Drive Connector????SATA HBA??  
 ??link layer?????????SAS??STP???STP???Serial ATA Tunneling Protocol?STP?????????????SAS??SATA?????  
 SATA protocol?????????????????????SMP(??Expander?)?SSP(??SAS?)?????????????????SATA????????????????????  
 SATA HBA?????????SAS HDD?  
 ??Dual-Port?????????-?????????Dual-Port?????????????????SAS Drive Connector??backside????????secondary link?  
 ???link???SAS HDD??



????????Dual-Port?????????????????SAS HBA?????????????????SAS HDD?????????????????SAS HBA???SAS HDD??????????????  
 ?Dual-Port??Dual-Port????????????????????backplane????Single-Port??????  
 Dual-Port????????????????????