



Serial ATA II: Supplemental Design Guide

Supplement ID	001
Applicable Spec.	Extensions 1.0

Submission info

Name	Company	Date
Amber Huffman	Intel	6/2/2003

Description of design guidance

Staggered spin-up, as defined in section 6.2 of the Extensions specification, is only applicable during initial drive power-on. If the drive is spun-down subsequently using ATA commands, the drive shall not spin-up in response to entering the DP7:DR_PhyReady state. The drive shall follow the rules governing spin-up from low power modes described in the ATA/6 specification.

Supplemental Information

Section 6.11.3 of the ATA/6 specification describes four power states: Active, Idle, Standby, and Sleep. In both the Standby and Sleep modes, the drive is spun-down. According to the power modes state machine in Figure 8, the drive shall only spin up after entering these power modes when media access is required. The drive shall not use the staggered spin-up mechanism to cause the drive to spin-up in cases where the drive was spun down using an ATA command.

Disposition log

6/2/2003	Submitted for review
6/30/2003	Approved by steering committee

Technical input submitted to the Serial ATA II working group is subject to the terms of the Serial ATA II participant's agreement (contributor's agreement).