



X3T9.2/92-142R0

DATE: June 23, 1992
TO: John Lohmeyer
CC: X3T9.2 Membership
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SUBJ.: ATA Public Review Comments

Quantum would like to register the following objections to revision 3.0 of the ATA document:

- o **Downloadable firmware:** there is a trend in the industry to allow for the updating of embedded firmware via the device interface. SCSI-2 has a standard download microcode functionality, but ATA does not. Currently the downloading of ATA firmware is done with vendor unique commands, which prevents BIOS support of this functionality. The ATA standard should include a download microcode command, perhaps modeled off of the write buffer command ala SCSI.
- o **3.3 volt operation:** during the coming year many 2.5" and 1.8" devices will be offered in 3.3 volt configurations. There is currently no mention of 3.3 volt operation in the ATA standard.

Quantum also supports the public review comments of Western Digital (LBA mode), Intel/Emulex (DMA timings), Zenith (Power Management), Integral/Cirrus (PCMCIA mapping), and Seagate (3 pin power connector).