



ADS512101

Revision 3.x Errata

*Errata on the ADS512101 Revision 3.x as of May 2008.
The revision designation is on the module and on the SN label.*

Video

The MPC5121e Display Integrated Unit has six of eight colors routed to the Video Control IC on the ADS512101 Revision 3 PCB. The result is a color aberration from the LVDS and TFT connectors on the module (P20 & P21), but not to the DVI output, J6.

Fix: Only one set of outputs (P20 & P21 or J6) can be set to eliminate the aberrant color output. This can be adjusted in the OS driver. The driver for the on board Video Control IC is NOT part of U-Boot. A patch, gamma_set, has been written for Freescale's Linux Target Image Builder, LTIB, and is loaded in LTIB included in the ADS512101 on or after April 21, 2008. To determine if your ADS512101 has this patch, use our contact page, <http://www.silicontkx.com/support/contact.php>, and send you serial number to STx. The patch and instructions are available at: http://www.silicontkx.com/support/faqs.php?cat=4#faq4_8.

Revision 4.0 of the PCB routes all eight colors.

PATA

The Parallel ATA is non-functional. Additionally, if a jumper is used to select a voltage setting for PATA, P11, the ADS512101 will not boot properly or not at all.

Fix: A daughter card is available that corrects this problem. To modify an ADS512101 integrated circuit, U24, BGA must be removed. The no charge daughter card and instructions are available upon request or Silicon Turnkey Express will modify your ADS512101 at no charge. You can request the modification package at: <http://www.silicontkx.com/support/contact.php>. If you wish to return your ADS512101 for repair, please request return authorization at the above web site. If you required special handling contact us at ADS512101@silicontkx.com or 800-827-2650.

Revision 4.0 of the PCB corrects the PATA.

CAN

The CAN transceivers may not function properly. The transceivers were connected to 3.3V.

Fix: Pin 3 on U21 & U22 needs to be lifted and connected to 5V.

Revision 4.0 of the PCB connects these to 5.0V.

Micro-SD

The current ADS512101 architecture does not support simultaneous use of a PATA mass storage device and a Micro-SD card.

Fix: No current fix is available.

Revision 4.0 of the PCB is expected to start shipping in late June, 2008.