

MVX/SVX Firmware Changelog

Version: **4400**
(since vers. 4393)

Date: 16.06.2020
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Hardware compatibility with ETRON SDRAMs
USB compatibility with XKEYs
USB prevent Barcode Scanner Vendor ID 05F9 and Product ID 220A from being identified as keyboard
Prevent EIZO Monitor from displaying "Out of Range" when changing the resolution

Ver. 4408: 30.04.2019

Red frame appears if no USB at PC
Fixed USB status display and Reset after Autoupdate
Protect CPU clock after booting

Ver. 4409: 16.07.2019

Combined Version 8007b with 8008
excluded barcode scanner as keyboard

New numbering system: now the Gecma version number corresponds with KVM-TEC to avoid confusion about content. Only the first number is modified, e.g. GECMA 8407 is KVM-TEC 4407

Improvements:

- USB now supports Webcams if USB option is installed
- VHDL code improvements on timing and LVDS support
- No red frame when keyboard is not connected to remote unit

Bugfixes:

- Master Reset (Automatic Update)
- Firmware Corrupted Message
- USB mode display in Status Menu

Known Bugs

- Keyboard is displayed as plugged in, even if none is connected

Ver. 4410: MVX Copper Version uses unused Fiber data connections as shield

Ver. 4411: Adjusted some DDC settings (OEM customer)

Ver. 4412: Corrected phase Adjustment for different SDRAM types.

Ver. 4413:

SDRAM calibration CPU has Priority
Removed SDRAM databus contention when some phase adjustments were made
SDRAM data drive level set to 8mA
modified some timing constraints for easier compilation

generate CLK25 form PLL1
RGMII clock changes to CGB_RXC125
Olink minimal pause counter minimal 13 clocks
USB ulpi_send modified for critical Ibertelco PC booting in emulation mode
Removed change detect of register transfer above i_AUDIO_OUT_GAIN which caused lots of unnecessary flash writes.
Main.c more retries at gb_status
Modified do_reboot
Lantiq init reworked and moved to restore.c
Default SDRAM phase now 1/1
USB_rec.c added Get_device_descriptor for datapath keyboard in URI

Ver 4414

Fixed Monitor blinking problem caused by using CY2215 Synthesizer when fw_sync was off

Ver 4415

Modified some OEM menu settings

Ver 4416

Solved Monitor blinking problem with PCB 1.3 versions

Ver. 4417

USB solved issue with HP S101 Speaker Bar

USB fixed metastability problem causing sporadic false keyboard device address

Ver. 4418

Setting of vclk_invert for OEM version

USB removed Keyboard address lost workaround in C code because solved in VHDL