886LCD-M Boards BIOS revision information

886LCD37.rom   **8:25 19/06-07**

Display Logo2 V21 added.

886LCD36.rom   **12:48 10/05-07**

Fix problem with HDDlock and some harddisks

886LCD35.rom   **11:39 30/03-07**

Problems with "SMI on OS Ownership Change" sometimes not generating a SMI, causing handoff to OS fail.
Problems seen with "ON Time Boot disk"
Setup for default Mass storage emulation type added

886LCD34b.rom

Fixed ACPI S3 problem

886LCD34.rom   **14:19 27/02-07**

KT Harddisk Lock feature added (HDDlock). Vendor code must be used to activate feature.

886LCD33.rom   **13:38 04/12-06**

When manufacturer string differs from "Kont" in 886LCD32... changed to check for "Kontron Technology"
Option for PCI latency 8 and 16 added.
Via EXT-PCI Rev-B routing corrected. Seen from the expanded top slot : Lane A -> Same as base Slot/Lane D,+3 = D Lane B -> Same as base Slot/Lane A,+3 = A Lane C -> Same as base Slot/Lane B,+3 = B Lane D -> Same as base Slot/Lane C,+3 = C Seen from the expanded top slot : Lane E -> Same as base Slot/Lane H,+3 = H Lane F -> Same as base Slot/Lane E,+3 = E Lane G -> Same as base Slot/Lane F,+3 = F Lane H -> Same as base Slot/Lane G,+3 = G

886LCD32.rom   **11:25 30/10-06**

SMBIOS type 1 & 2 are now equal containing Kontron board type, part + serial. When manufacturer string differs from "Kont" the BIOS will not fill any info into that type. EEprom info will override Chassis type.
BIOS does not use absolute values for SMBIOS block any longer.
Display block V1.07 added.
GPIO port 4 is now activated by default and still input.

886LCD31.rom   **14:28 20/09-06**

System FAN is now restored when doing a S3

886LCD30.rom   **14:08 20/09-06**

AMI USB module updated for improved **USB floppy support**

886LCD29.rom   **13:00 18/08-06**

> **PME** was always set in DOS and Linux even if it was disabled in the BIOS

886LCD28.rom   **10:30 16/08-06**

> **AC Power Loss Restart = On** was not supported with Reset signal forced low externally during AC power down.

886LCD27.rom   **10:30 21/06-06**

> Fix to **support embedded M-system USB** boot.
> Otherwise it is considered as a floppy image.

886LCD26.rom   **10:29 30/05-06**

> Added **RT32 Support** (LabVIEW)

886LCD25.rom   **11:42 24/05-06**

> Updated **AMI USB** module added (ver -2.24.0-11.4) for support of Philips ISP-1520 USB HUB

886LCD24.rom   **14:32 10/02-06**

BIOS setting: **Backlight Signal Inversion default** changed to "Disable"

After a corrupt CMOS, **loading BIOS defaults using F1** caused Kontron Defaults to be loaded and not the OEM setup defaults. Problem fixed so Failsafe CMOS settings are now loaded after a corrupt CMOS.

Fix **Primary Master + Primary Slave harddisk type "NOT installed"** issue with load Failsafe settings using OEM defaults with no harddisks installed.

Vendor code added for user defined key to default CMOS settings during boot :

"BF epoke 8 01" will setup ESC key to be used.
"BF epoke 8 FF" will set back to normal / no key setup

Common keys :
    01   ESC
    0F   TAB
    1D   Left Ctrl
    29   §/½
    3A   Capslock
    3B-44   F1-F10
    45   NumLock
If running with secure CMOS, the original Failsafe values will be loaded.
If running with OEM defaults, the OEM defaults values will be loaded.
The key must be pressed approx 1 sec. after power on.

886LCD23.rom   **14:32 03/01-06**

Secure CMOS problem on 886LCD22 BIOS solved

Expansion ROM on Multimedia class PCI add-on cards boards would not run, fixed.

USB 2 hot-plug devices caused problem when BIOS setting set to HiSpeed.
The USB2.0 can not handle IRQ6 via LNKH, so it is fixed by removing that option from PCI routing tables.

PXE GUID is now the Serial + Partnumber (Kontron numbers)

Add Version 1.06 of **display block**.

886LCD22.rom   **12:00 14/10-05**

Support for following board versions added:

886LCD-M/mITX:
Board P/N: 5383xxxx and above
Sales P/Ns: 710182-xxxx-R15 and above, 710187-xxxx-R15 and above, 710191-xxxx-R15 and above, 710195-xxxx-R15 and above.
886LCD-M/Flex:
Board P/Ns: 5365xxxx and above
Sales P/Ns: 710180-xxxx-R17 and above, 710184-xxxx-R17 and above.
886LCD-M/ATX:
Board P/Ns: 5392xxxx and above
Sales P/Ns: 710183-xxxx-R14 and above

IMPORTANT: For above board versions, the BIOS 2.2 is required.

BIOS version 2.2 is backwards compatible and can be used for all previous board versions.

Extended Hardware Watchdog support added for boards listed above with BIOS 2.2 (BIOS options of 16sec, 38sec, 1min, 2min, 5min, 10min added).

ACPI Wake-on RTC (Real Time Clock) "Day" register fixed to Wake correctly on "Day".

Support for 32byte Microsoft SLP key (System Locked Pre-installation) added.

"Force HDD boot" BIOS option changed to include **"Network" option** (force network boot). "Force HDD boot" BIOS option renamed to "Force boot device".

Detection routine for ETH2 and ETH3 improved for better support of early PCB versions.

Vendor codes added for specific customer requests.

When **OEM defaults** are activated, "Load optimal defaults" BIOS option is removed.

Setup Fingerprint added and displayed in BIOS Exit Menu whenever Secure or OEM defaults are activated. The checksum (Fingerprint) is calculated on BIOS Secure or OEM Setup defaults parameters selected and displayed for validation of BIOS parameters selected on a certain system.

CPU MTRR registers fixed for correct caching of main memory area.

IRQ 6 added to **Preferred IRQ** menu in the PCI configuration menu.
IRQ reservation support added for assigning a unique IRQ for selected **PCI slot**.

Latest **Display Block** added.

Fixed bug with **USB Mass Storage Device Configuration/ USB Mass Storage Reset Delay** and **USB Mass Storage Device Configuration/ Emulation Type** not working correctly.

Fixed issue with **Video memory setup in BIOS to 1MB** will cause 2MB to be assigned.