

Part Number: **4175501xx-3**

Model: **HX-4096**

| DATE | VERSION | SUMMARY OF CHANGES | NOTE |
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| | | Conformal Coating Required | |
| 26 May 2017 | 20 | <p>Production release a special version SVX-4096 that support wider temperature range</p> <ul style="list-style-type: none"> - Most component used can be operated at wider temperature range. - Added conformal coating <p>Firmware same as standard SVX-4096 P/N 417550022-3</p> <p>Bare PCB: 017550002-5; P/N 417550120-3</p> <p>BIOS: U20, V1.06.00.00 (Flash F25L16PA-100PG2S)(same as 417550022-3) U24, V6.06.0.0 (PIC32F675F512L) (same as 417550022-3) U33, U33_20170105.bin(SST25VF020)(web page of IP-60) (same as 417550022-3) U41, VGA/DVI DDC (checksum AD,8E) (same as 417550022-3) U31,37, HDMI DDC(P2/P3) (checksum AD,DE) (same as 417550022-3) U34, HDMI(P4) DDC (checksum 7E,46) (same as 417550022-3) U19, DP DDC (checksum 91,70) (same as 417550022-3)</p> | ECN# N/A |
| 13 June 2019 | 21 | <p>Scalar firmware change to V1.07.00.00:</p> <ol style="list-style-type: none"> 1. Add panel timings <ol style="list-style-type: none"> a. <i>LG LM300WQ6-SLA1</i> b. <i>NLT NL192I08ACI3-02D</i> c. <i>LG LA1340UW1-SSA3</i> d. <i>LG LM238WR3-SSB1</i> 2. Add Video lock option on SW4-5 3. Add RS-232 commands 0x98 0x2B/0x2D, 0x92 'R' command 4. Increase color temp range from 2300K-9300K 5. Improve audio level on CN13 6. Change IR key detecting mechanism. Continuously pressing for POWER, OSD Next/Back, PIP. 7. Change internal default value for Brightness and Contrast. Improve better gray scale. 8. Check firmware checksum to determine whether update EDID. <p>IP-60 changes:</p> <p>Bootloader change to V2.0, firmware on U24 changed to V6.11.0.0</p> <p>Web page on U33 changed to D20180514.bin</p> <ol style="list-style-type: none"> 1. New boot loader (V2.0) is used. Upgrade IP-60 without opening chassis. 2. Added sensor query command for network (TCP) 3. Added DHCP/Mac address/IP address query command 4. Added command to enable boot loader (enable firmware upgrade mode) <p>Hardware change</p> <ul style="list-style-type: none"> - running change to use EON, EN25QH16A-104GIP on U20 as the old part F25L16PA is EOL. <p>Bare PCB: 017550002-5 Rev B; P/N 417550121-3</p> <p>BIOS: U20, V 1.07.00.00 (Flash EN25QH16A-104GIP)(changed) U24, Bootloader version V2.0 (changed) U24, V6.11.0.0 (PIC32F675F512L)(changed) U33, U33_20180514.bin(SST25VF020)(web page of IP-60)(changed) U41, VGA/DVI DDC (checksum AD,8E)(no change) U31,37, HDMI(P2/P3) (checksum AD,DE) DDC(no change) U34, HDMI(P4) DDC (checksum 7E,46) (no change) U19, DP DDC (checksum 91,70) (no change)</p> | ECN# TW870688 045 |

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| July 6, 2021 | 21 to 22 | <p>Scalar firmware on U20 change to V1.08.00.00: Change details</p> <p>(1) Add panel support :</p> <p>(a) Support LG LM238WR2-SPE1 (3840x2160) eDP1.2 10V panel: SW3 (#1~8) ON ON OFF ON OFF ON ON OFF SW4 (#1~6) All OFF</p> <p>(b) Support AUO G270QAN01 (2560x1440) LVDS panel: SW3(#1-8): OFF OFF ON OFF ON OFF ON OFF SW4(#1-6): ON OFF OFF ON OFF OFF</p> <p>(c) Support Panasonic VVF24P185H00 (4096x2160) LVDS panel: SW3 (#1-8): ON OFF OFF ON ON ON ON OFF SW4 (#1-6): ON OFF OFF OFF OFF OFF OFF</p> <p>(d) Support Tianma NL256204AC16-01 (2560x2048) LVDS panel: SW3 (#1-8) : ON-ON-OFF-OFF-ON-OFF-ON-OFF SW4 (#1-6) : OFF-ON-OFF-OFF-OFF-OFF</p> <p>(e) Support LM215UH1-SPA1 (4096x2304) eDP1.2 panel: SW3(#1-8): ON-ON-ON-OFF-OFF-OFF-ON-OFF SW4(#1-6): OFF-OFF-OFF-ON-OFF-OFF</p> <p>(f) Support NEC NL192108BC18-06F 1920x1080@60 8bit eDP1.2 HBR panel: SW3(#1-8): OFF-OFF-ON-ON-ON-ON-ON-OFF SW4(#1-6): OFF-OFF-OFF-ON-OFF-OFF</p> <p>(g) Support JOLED EPM216Q**** 3840x2160@60 10 bit eDP1.2 panel: SW3(#1-8): ON-OFF-ON-OFF-ON-ON-ON-OFF SW4(#1-6): OFF-OFF-OFF-OFF-ON-OFF</p> <p>(2) Fix OSD Menu "Auto Source Seek" missing "c" character</p> <p>(3) Disable the spread spectrum function and Disable the panel power output when port switching trying to fix the flickering image on AUO M320QAN01.0 using SW3(# 1-8): ON-OFF-ON-OFF-OFF-ON-ON-OFF and SW4(#1-6): All OFF setting.</p> <p>(4) Set audio level so 75% to 100% to avoid audio quality get distorted when increase the audio level above 80% volume.</p> <p>(5) Add renaming port name feature</p> <p>(6) Add to support User Gamma LUT.</p> <p>(7) Fixed Color mapping when DVD Player connected to HDMI 2.0 port (P4)</p> <p>(8) Fixed no function of some DDCCI command (Color Temp, Input Source</p> <p>Hardware no change</p> <p>Bare PCB: 017550002-5 (Running change to Rev C); P/N 417550122-3 BIOS : U20, V 1.08.00.00 (Flash EN25QH16A-104GIP)(changed) U24, Bootloader version V2.0 (no change) U24, V6.11.0.0 (P1C32F675F512L)(no change) U33, U33_20180514.bin(SST25VF020)(web page of IP-60)(no change) U41, VGA/DVI DDC (checksum 6E,8E)(changed) U31,37, HDMI(P2/P3) (checksum AD,DE) DDC(no change) U34, HDMI(P4) DDC (checksum 7E,96) (changed) U19, DP DDC (checksum 91,70) (no change)</p> | <p>ECN# TW870688 131</p> |
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| Prepared by: DV-HK | Date: 6 July 2021 |
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