

Part Number: **4176401XX-3** Model: **HLT-1920 General**

DATE	VERSION	SUMMARY OF CHANGES	NOTE
		Conformal Coating Required	
21 April 2020	10	<p>Production release HLT-1920 which can support wider temperature range</p> <ul style="list-style-type: none"> - Reference to standard ALT-1920 417640012-3 - most component used can be operated at wider temperature range - add heatsink on U12 - add conformal coating <p>Firmware V1.02.00 used on U6 (same as standard ALT-1920, 417640012-3)</p> <p>Bare PCB: 017640001-5; P/N 417640110-3</p> <p>BIOS: U6, V1.02.00 (Flash MX25L8006EM11-12G(changed) U14, Checksum:B3,1D (ARGB DDC, 24C02)(no change) U13, Checksum: 01, 48 (HDMI DDC, 24C02)(no change) U12(memory), DP DDC checksum 4F, 48 (no change)</p>	ECN# TW0688079
5 May 2020	1x to 20	<p>Release new version using PCB 017640002-3</p> <p>Change light sensor connector CN9(3pin) to CN6(2pin) and related circuit PCB changes as below</p> <ul style="list-style-type: none"> - Remove CN9 - R203 changed from 2M to 10K - Add C24 0.1u/0402 - Add CN6 DF13/2pin - R16(20K) change package from 0402 to 0603 - added V1(potentiometer), solder 20K(0603) resistor between pin1 and pin2 as in DT-1920-HDMI. <p>Firmware no change</p> <p>Bare PCB: 017640002-5; P/N 417640120-3</p> <p>BIOS: U6, V1.02.00 (Flash MX25L8006EM11-12G(no change) U14, Checksum:B3,1D (ARGB DDC, 24C02)(no change) U13, Checksum: 01, 48 (HDMI DDC, 24C02)(no change) U12(memory), DP DDC checksum 4F, 48 (no change)</p>	ECN# TW0688085

30 August 2021	20 to 21	<p>Hardware no change Release new firmware V1.04.00</p> <p>1) Add panel support : - Sharp LQ201U1LW32 1600x1200 panel. (SW1=0100 1000, SW2=00 (0=OFF, 1=ON)) - Support NEC NL12876BC26-25 1280x768 panel. (SW1=1011 1100, SW2=11, 1=ON, 0=OFF)</p> <p>2) Fine-tuning EDID 1600x1200 Preferred Timing.</p> <p>3) Make OSD menu image not displayed on screen during press and hold the MENU button.</p> <p>4) Make single button function using '+' button to scroll through the inputs</p> <p>5) Make faster the time for sending between one and the next RS-232 command.</p> <p>6) Add Saturation RS-232 command (0x83), Range: "0x00"- "0x64", Default: "0x32".</p> <p>7) Add Hue RS-232 command (0x84), Range: "0x00"- "0x64", Default: "0x32".</p> <p>8) Improve the EDID update process to avoid any read/write EDID action in each power up cycle.</p> <p>9) Fix the soft ON/OFF command (0xC8) which needs at least 1 second long timeout before sending the next command.</p> <p>10) Fix to display odd resolution when power on the controller when firstly boot into the O/S (e.g Windows 10 Pro or RedHat 7) occasionally. The root cause is related to the scalar internal DP receiver detection issue that the firmware need to make some precaution to recognize the input signal.</p> <p>Bare PCB: 017640002-5; P/N 417640121-3</p> <p>BIOS: U6, V1.04.00 (Flash MX25L8006EM11-12G(changed) U14, Checksum:B3,1D (ARGB DDC, 24C02)(no change) U13, Checksum: 01, 48 (HDMI DDC, 24C02)(no change) U12(memory), DP DDC checksum 4F, 48 (no change)</p>	ECN# TW0688135
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Prepared by: DV-HK

Date: 30 August 2021