

Part Number: **4175900xx-3**

Model: **SVX-4096-120**

DATE	VERSION	SUMMARY OF CHANGES	NOTE
12 January 2016	10	<p>Release production material for pilot run</p> <p>Bare PCB: 017590001-3; P/N 417590010-3 BIOS: U20, E1.04.00.06 (Flash F25L16PA-100PG2S)(new) U58, E1.14.00 (Flash MX25L3206E)(new) U24, V6.06.0.0 (PIC32F675F512L)(no change same as SVX-4096) U33, U33_20160307.bin(SST25VF020)(Web page)(no change same as SVX-4096) U41, DDC checksum(4D)(new) U31,37, DDC checksum(4D,13)(new) U34, DDC checksum(CB,82)(new) U19, DDC checksum(51,B8)(new)</p>	ECN# 870689606
28 November 2016	10 to 11	<p>Hardware change</p> <ul style="list-style-type: none"> - not install R38(10KΩ), R366(0Ω), R369(100Ω) and R415(22Ω) - added R48(10KΩ) and R393(10KΩ) <p>Official release SVX-4096-120 with new firmware V1.05.00.00 SVX-4096-120 feature list Panel connectivity: - V-by-One panel (16-lane) Input: - HDMI (2.0), up to 4096x2160@60Hz - 2 x HDMI (1.4), up to 4096x2160@30Hz - Display Port (1.2), up to 4096x2160@60Hz - Dual-link DVI, up to 4096x2160@30Hz Key Features Support: Key Features Support: - OSD features: - Display mode: 1P, 2P LR, 2P TB, 2P PIP, 4P - Display function: - H-flip, V-flip, MEMC - 1P: Display rotation, - 2P LR, 2P TB: Input Swap - 2P PIP: PIP position, PIP transparency, PIP size, Input swap - Picture: Backlight, Brightness, Contrast, Sharpness - VGA setup: Auto Adjust, H position, V position, Clock, Phase, Color Gain - Color: Gamma, Temperature, Color Effect, Hue, Saturation - Advance: - Aspect ratio - Over scan on/off - Over drive on/off - Communication: RS-232/Network, - Auto source seek on/off - Hot key 1 and 2 settings - Power save on/off - Default power on/off - Input: A0:VGA, D0:DP, D1:HDMI, D2:HDMI, D3:HDMI, D4:DVI - Audio: Volume, Mute on/off, Audio source - Other: - Reset - OSD menu timeout - OSD H position - OSD V position - OSD Transparency - OSD Rotate - 2P,4P border width, border color - Information: Selected input, resolution, H frequency, P clock, HDCP disabled/enabled - Factory: - Backlight setup:</p>	ECN# 870689621

		<ul style="list-style-type: none"> - Invert on/off, DA/PWM, Frequency, Min. level - V-by-one pin setup: <ul style="list-style-type: none"> - Pin 15 to Pin 24 high/low settings - EDID reset - Support Multi-panel timings selection by DIP SW settings. - Support PIP (Picture in picture) and PBP (Picture by picture, up to max. 4 pictures) - Support RS-232 commands controls - Onboard LAN port support commands control in local network. (IP-60's direct/browse mode) - Onboard temperature sensor. - Support external sensors monitoring. - Audio line out header for the connection to external audio amplifier. - Input power of DC:12V/DC 24V. - Supports 3.3V/5V/10V/12V and 18V panels - Support DV IR remote handset <ul style="list-style-type: none"> - Support DP clone feature: DisplayPort input is loop-through to DisplayPort output port <p>Bare PCB: 017590001-3; P/N 417590011-3 BIOS: U20, V1.05.00.00 (Flash F25L16PA-100PG2S)(changed) U58, V1.00.00 (Flash MX25L3206E)(changed) U24, V6.06.0.0 (PIC32F675F512L)(no change) U33, U33_20161111.bin(SST25VF020)(changed) U41, DDC checksum(4D,8E)(changed) U31,37, DDC checksum(4D,DE)(changed) U34, DDC checksum(3E,46)(changed) U19, DDC checksum(51,70)(changed)</p>	
8 June 2017	11 to11 (unchanged)	<p>To improve the transient response of panel power output</p> <ul style="list-style-type: none"> - C66 changed from 1000pF to 33nF/25V/0603 <p>Firmware no change</p> <p>Bare PCB: 017590001-3; P/N 417590011-3 BIOS: U20, V1.05.00.00 (Flash F25L16PA-100PG2S)(no change) U58, V1.00.00 (Flash MX25L3206E)(no change) U24, V6.06.0.0 (PIC32F675F512L)(no change) U33, U33_20161111.bin(SST25VF020)(no change) U41, DDC checksum(4D,8E)(no change) U31,37, DDC checksum(4D,DE)(no change) U34, DDC checksum(3E,46)(no change) U19, DDC checksum(51,70)(no change)</p>	ECN# 870689652

<p>22 March 2019</p>	<p>12</p>	<p>Update firmware</p> <p>Scalar firmware change to V1.07.00.0</p> <ol style="list-style-type: none"> 1. Add Video lock option on SW4-5 2. Add RS-232 commands 0x98 0x2B/0x2D, 0x92 'R' command 3. Increase color temp range from 2300K-9300K 4. Improve audio level on CN13 5. Change IR key detecting mechanism. Continuously pressing for POWER, OSD Next/Back, PIP. 6. Change internal default value for Brightness and Contrast. Improve better gray scale. 7. Check firmware checksum to determine whether update EDID. 8. Fixed Dp output on 1P mode <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 D20180604.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: 017590001-3; P/N 417590012-3</p> <p>BIOS: U20, V1.07.00.00 (Flash F25L16PA-100PG2S)(changed) U58, V1.00.00 (Flash MX25L3206E)(no change) U24, V6.11.0.0 (PIC32F675F512L)(changed) U33, U33_20180604.bin(SST25VF020)(changed) U41, DDC checksum(4D,8E)(no change) U31,37, DDC checksum(4D,DE)(no change) U34, DDC checksum(3E,46)(no change) U19, DDC checksum(51,70)(no change)</p>	<p>ECN# TW870688 036</p>
<p>15 April 2020</p>	<p>1x to 20</p>	<p>Release new version for using new bare PCB 017590002-5 Rev B</p> <p>PCB changes</p> <ul style="list-style-type: none"> - replace Novatek FRC from NT72324 to NT71934 and related circuit - replace eol DC-DC converter IC, EUP3226JIR1, to RT6264AHGJ6F and related circuit - Resistor R444 and R445 changed to 3.3K ohm for auto detect PCB assembly for NT71934 <p>Firmware change V1.08.00.01</p> <ol style="list-style-type: none"> 2. Support new novatek ic <ul style="list-style-type: none"> - Due to new novatek ic limitation: "MEMC On, V-Flip MUST be off" OR "V-Flip On, MEMC MUST be off" 3. General Fix: <ul style="list-style-type: none"> - Fix 4P left key skip display function - Fix when set contrast in PIP mode, the color temp cannot restore back correctly - Auto detect new PCB assembly for NT71934 <p>New firmware V2.00.00 on U13 for NT71934</p> <p>IP-60 firmware no change</p> <p>Bare PCB: 017590002-5 Rev B; P/N 417590020-3</p> <p>BIOS: U23, V1.08.00.01 (Flash GD25Q16C)(new) U13, V2.00.00 (Flash MX25L3206E)(new) U29, V6.11.0.0 (PIC32F675F512L) (no change)</p>	<p>ECN# TW870688 078</p>



PRODUCT REVISION RECORD
Internal use

		U38, U38_20180604.bin(SST25VF020) (no change) U46, DDC checksum(4D,8E) (no change) U36,U42, DDC checksum(4D,DE)(no change) U39, DDC checksum(3E,46 (no change) U26, DDC checksum(51,70) (no change) -	

Prepared by: DV-HK	Date: 15 April 2020
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