

**Part Number:** 4178100XX-3

**Model:** SP-1920v2 General

DATE	VERSION	SUMMARY OF CHANGES	NOTE
	10	Release pilot run document for production <b>Bare PCB: 017600001-5; P/N 417600010-3 (Only 30 pcs)</b> BIOS: U3, V1.00.00.00 (Flash GD25Q64CSIGR )(new) U23, Checksum : TBC (ARGB EDID, 24C02)(embedded in firmware) HDMI1 EDID, Checksum: TBC (internal memory) HDMI2 EDID, Checksum: TBC (internal memory) DVI EDID, Checksum: TBC (internal memory)	ECN# N/A
13 Oct 2022	1x to 20	Production release SP-1920v2 PCB version changed to 017810002-3 <ul style="list-style-type: none"> <li>- Fixed not enough pull up on hot plug pin of P3(HDMI1) for some input device.</li> <li>- Move PP5 inwards as DV-US request.</li> </ul> <b>Features:</b> 1) Input type: <ul style="list-style-type: none"> <li>. 1x DVI-D (single-link 1.0) - DVI-D connector.</li> <li>. 1x HDMI1 1.4 - on board type A (female) connector</li> <li>. 1x HDMI2 1.4 - JST BM20B-SRDS connector</li> <li>. 1x VGA - DB15 connector.</li> <li>. 1x HD/SD Component (YPbPr/YCbCr) video - JST 6-way, B6B-PH-K</li> <li>. 1x Composite video - BNC connector.</li> <li>. 1x Connector for Media playback and firmware upgrade from USB flash device- JST B4B-PH-K or compatible connector</li> <li>. 1x Alternate HDMI1 1.4 - JST BM20B-SRDS connector</li> <li>. 1x Alternate Composite 1 - JST B5B-PH-K 5 way connector.</li> <li>. 1x Alternate VGA - Hirose 12-pin, DF11-12DP-2DSA compatible</li> </ul> 2) Maximum panel resolution: 1920x1200 @60Hz. 3) Panel interface: LVDS (2-channel) 4) Support panel voltage : 3.3V/5V/10V/12V/18V 5) True 10-bit support (e.g. HDMI input, process, output to panel). 6) On board I <sup>2</sup> C port for external communication. 7) On board RS-232 port for external communication. 8) Reserved one GPIO pin for NVIS application. 9) Support RS-232 & IR command control. 10) OSD control connector uses Hirose DF13A-12P-1.25H 11) Supports image flip (H-flip, V-flip & H+V-flip). 12) Backlight control: Analog or 8 bit PWM (12 bits PWM built option) 13) Enable frame buffer for frame rate control, image enhancement, etc. 14) Firmware upgrade through USB flash device. 15) Media file (h.265/h.264) failover function from USB flash device. 16) Support Stereo audio line in. 17) Support audio line out through SPDIF & Stereo line out. 18) Support Composite video loop out function. 19) Support 2 pins light sensor connection. 20) Support on-board temperature sensor 21) Dual color LED connector and on-board LED reporting controller status. 22) On board LED reporting power input status. 23) Support backlight status input connection. 24) VESA input timings support 25) Multi panel support by changing the dip switch setting on board. 26) Support 'Resolution default by EDID' for different resolution panel. 27) Power input: 12VDC or 24VDC.  <b>Bare PCB: 017600002-5; P/N 417810020-3</b> BIOS: U4, V1.11.00.00 (Flash GD25Q64CSIGR )(new) U24 ARGB EDID, Checksum : A2, 99(24C02)(embedded in firmware) HDMI1 EDID, Checksum: B1, C5 (internal memory, embedded in firmware) HDMI2 EDID, Checksum: B1, C5 (internal memory) (embedded in firmware) DVI EDID, Checksum: B1,D4 (internal memory) (embedded in firmware)	ECN# TW870688 155
		Start produce ROHS and REACH version SP-1920v2	
18 Aug 2025	20 to 21	No hardware and firmware change <b>Bare PCB: 017600002-5; P/N 417810021-3</b> BIOS: U4, V1.11.00.00 (Flash GD25Q64CSIGR )(no change) U24 ARGB EDID, Checksum : A2, 99(24C02)(embedded in firmware) HDMI1 EDID, Checksum: B1, C5 (internal memory, embedded in firmware) HDMI2 EDID, Checksum: B1, C5 (internal memory) (embedded in firmware) DVI EDID, Checksum: B1,D4 (internal memory) (embedded in firmware)	ECN# TW870688 235

--	--	--	--

<b>Prepared by: DV-HK</b>	<b>Date: 18 August 2025</b>
---------------------------	-----------------------------