





SMP-8100

Versatile Digital Signage Player for 4-Display Video Wall

Product Highlights

- Equipped with 4 HDMI outputs, tailored for 3 or 4-display video wall applications
- Support 4 signal output modes: single, clone, extended, and distinct modes
- 3 playback modes : zone-type, individual programs, or playlists
- Support 4K UHD video, HTML5, weather, social media, etc.
- Offer flexible task scheduling based on once, daily, weekly, monthly, or yearly timescales
- Allow self-designed template creation either directly on SMP player or on your PC
- Integrate facial recognition technology to deliver personalized content (requiring QNAP QVR Face Tiger)
- Rich Library and cloud resources



Robustie Solution

The Robustie Solution brilliantly equips industrial-grade hardware and professional software to provide a professional and robust solution to users with diverse project needs. CAYIN SMP players, the core member of the Robustie solution, are designed to work

standalone to play programmed content on displays while fulfilling the requirements of smaller-scale digital signage applications.



Built to Convey Instant and Media-rich Messages

SMP-8100 Digital Signage Player supports a variety of multimedia formats including 4K UHD video, YouTube Video, HTML5 web page, image, music, and text ticker. The player can stream real-time HD video by connecting to other multimedia devices through an external HDMI capture card (sold separately).



The richness of your digital signage networks goes

beyond promotional videos, other contents such as news, weather, streaming videos and any partial web page can also be easily adapted to enrich your digital signage presentations.

Ready-to-use Digital Signage Player

SMP-8100 Digital Signage Player, the industrial-grade hardware, is bundled with dedicated digital signage software, SMP-NEO2, as a complete media player for digital sign applications. SMP-8100 and SMP-NEO2 are optimized to work well together. Not only will you enjoy a seamless user experience, but you can also manage the device remotely from your web browser without installing any additional software.



HDMI Video Outputs Widely Broadening Applications

The SMP-8100 player supports one 4K UHD or up to four FHD outputs and can control up to four screens in both portrait and landscape orientations, accommodating most popular as well as user-defined resolutions.

4 Signal Output Modes Widely Broadening Applications:

Single Mode: connect to one screen

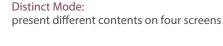


Clone Mode: present identical contents on four screens



Extended Mode:

link four screens together and present content stretching across four screens







Mobile and Place-Based Digital Signage

SMP-8100 Digital Signage Player can integrate with 4G/3G and GPS technology to provide mobile and location-based solutions. Players installed in moving vehicles can play contents based on both time and location. Administrators can also locate each player on Google Maps and instantly have an idea of the overall connection status of all media players.



Simplified and Secure **Network Management**

single LAN port.

signage projects.

Rich Library and Cloud Resources

necessary raw materials, including multimedia files, fonts, clocks, skins, programs, and playlists, can be accessed easily in the Library to assist you in organizing resources.

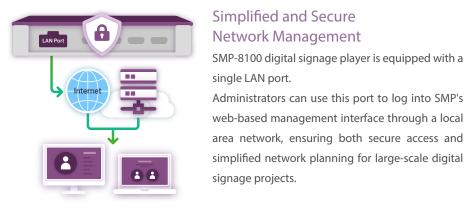
The system allows you to upload your desired fonts and even download the latest templates from CAYIN's Cloud service for free to greatly enrich your content.



Easy-to-Use Template Creation in Two Ways

With SMP-NEO2, SMP-8100 Digital Signage Player provides a web-based Skin Editor so that users can perform a drag-and-drop operation to define the size and the location of each zone directly on SMP players. Through Skin Editor, you can customize the screen resolution to meet your needs, including screen orientation and multi-display setup.





3 Playback Modes for All Occasions and Applications

You can divide the screen into several zones, each media assigned with independent schedules and settings. If you simply want to deliver a full-screen presentation as a digital poster, you can create playlists to display different multimedia contents in order.



Administrators can use this port to log into SMP's

web-based management interface through a local

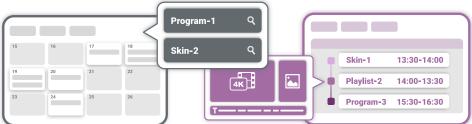
area network, ensuring both secure access and

simplified network planning for large-scale digital

2 Viewing Modes for Playback Scheduling: Calendar and Timetable

You can insert a one-time event or arrange periodic tasks based on daily, weekly, monthly or yearly timescales. You can assign a date, a time period, or even a day in a specific week of a month (e.g. 2nd Sunday in May).

Location-based scheduling or central scheduling through a CMS server is also available to increase the flexibility.





Flexible Platform for Extended Integration

SMP-8100 Digital Signage Player can be integrated with other external devices to meet requirements from diversified vertical markets.





Facial Detection & Digital Signage



Digital Signage

Web Technologies & Digital Signage



Retail Digital Signage



Multi Video Output & Video Wall



Live Feed & Digital Signage



Location Based Digital Signage



Smartphone & Digital Signage



Web SDK



Personalized Advertising



Social Media



Weather

Engage Customers with Interactive Digital Signage

SMP digital signage players support integration with HID compliant touch panels and multi-touch gestures. Users can tap, swipe, pinch or spread one or two fingers to click, change, zoom in or out web pages. You may also create your own custom gestures to suit your specific needs. Furthermore, SMP players integrate with facial recognition software, QNAP QVR Face Tiger, for advertisers to deliver personalized contents by judging the viewer's age, gender or by the number of viewers and drive customer engagement.









Scroll

Select items

Switch between contents

Instant Remote Diagnostics and Preliminary Maintenance

Administrators can perform troubleshooting remotely by retrieving log records and monitoring key operational activities, such as system resource usage, CPU temperature, and network topology. To obtain the optimal performance and functionality, users will be prompted to install patches whenever new software updates are available.



If an abnormal situation occurs, SMP-8100 Digital Signage Player is equipped with a self-repair mechanism to restart the system automatically. Administrators can also restore configurations or recover a system immediately when necessary.

CMS-SE Server

With CMS-SE, administrators can manage players in groups, and perform live video streaming, central scheduling, emergency mode, access right management, and content updates of multiple players simultaneously.



System Specifications

System software	SMP-NEO2 v3.0	
Content Creation	Zone type	 Able to use CAYIN Skin Editor to create templates either directly on SMP players or on your PC Display zone: Video zone x 2 (video file/streaming/audio) HTML zone x 3 Image zone x 2 Ticker zone x 2 Clock zone x 1 Background image x 1
	Full-screen	• Use any web-editing tool to create HTML pages with unlimited Video zones, Image zones, and Ticker zones (*Depending on Hardware Spec)
Multimedia Playback	Playback modes	• 3 options: Skin, Program, and Playlist
	Web Pages	 Browser: Firefox Web language: support HTML 5⁽¹⁾, JavaScript and RSS/ATOM Feed Plug-in: CAYIN Media Player (Video and Audio), CAYIN Ticker, CAYIN Image Slideshow Content: show whole or part of HTML, remote URL, weather, social media or integrate with users' network facilities and databases
	Streaming Video	• CAYIN RTB (MPEG4-TS, MPEG2-TS; bit-rate: 1~5 Mbps) • RTSP (codec: H.264; bit-rate: 1~20Mbps) • RTP (MPEG-2, MPEG-4, bit rate: 1~10 Mbps) • HTTP/MMS

 $^{^{\}mbox{\scriptsize (1)}}$ The compatibility is based on the built-in Firefox browser.

Multimedia Playback	Video Files	 Format: MPEG (MPG, VOB), AVI (H.264), WMV, MP4 Codec: MPEG-1/2, MPEG-4 ISO, WMV 7/8/9, H.264, H.265(HEVC), VP9 Bitrate and resolution: Up to 4 x FHD (1080p) 10M 20fps Up to 1 x 4K (UHD) 50M 30 fps / 15M 60 fps *We recommend using video files in H.264 format for the best playback performance. *It is not recommended to play 4K videos in Clone/Extended/Distinct mode, as the results may not meet expectations.
	Audio Files	• Format: WMA, MP3 • Codec: MP3, WMA 7/8, AAC, Vorbis
	Image Files	Format: JPEG/GIF/BMP/SVG Resolution: 4K (8,000k pixels)
	Preview	• Playback simulator: image, HTML/Flash, remote URL, and ticker (Note: Simulation is for reference only. Actual display may differ.) • File preview: show thumbnails for image and video files
	Face Detection	Software: integrate with QVR Face Tiger 1.0.1.0 or later Layout: show triggered contents in full screen or within a video zone of a skin or program Playback Content: program, playlist, video, image, and HTML/Flash
Schedule	Playback	 Local & central scheduling: edit schedules directly on an SMP player or centrally control multiple players in groups by a CMS server View type: calendar or time table Schedule mode: once, daily, weekly, monthly, yearly, and location Playback type: able to edit scheduled tasks for each zone or as a full-screen display
	Screen, volume & system	• Set schedules to turn on/off the screen, adjust SMP's volume, or restart the system
Content Update	Methods	 Online (manually): FTP, Network Shares (Network Neighborhood), SMP's Web Manager Online (automatically): CAYIN CMS server Offline: USB Storage Device

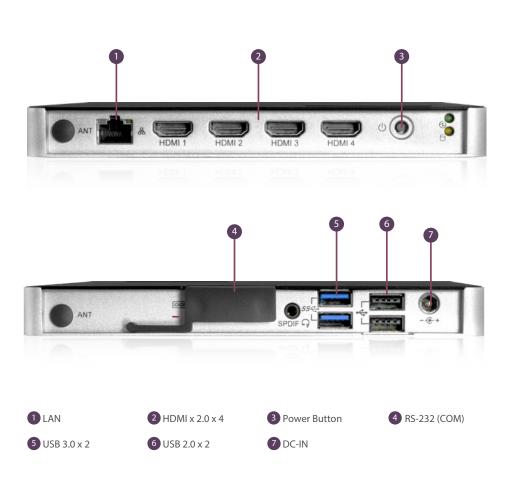
 $^{^{\}rm (2)}$ CAYIN doesn't guarantee that SMP-NEO2 is compatible with all font files.

System Settings	Display	Screen resolutions:
		- Single/Clone mode: support 4K@60HZ UHD resolution and up to 4096 pixels for one side by User defined mode
		- Extended/Distinct mode: support 1080p@60HZ FHD resolution and up to 2048 pixels for one side by User-defined mode
		Portrait Mode: Support 90 and 270 degree display rotation
		• 4 signal output modes: Single, Clone, Extended, Distinct Modes
		Support to detect EDID/DDC parameters
		Support the screensaver function
		Support to incorporate with USB HID compliance touch screen and multi-touch gestures
	Time	Set system time manually or synchronize the clock from an NTP server
	Location	Track SMP's current location by GPS or simply show a static location in Google Maps
	Hardware Monitor	Check CPU temperature and utilization of CPU, system DRAM, and hard drive
	Log	Create log files recording the system status
Remote Diagnostics and Maintenance		Able to purchase SuperReporter 2 to generate advanced playback reports
	System Update	Automatic notification of patch and firmware updates
	Self-repair	Able to restart/shutdown/recover the system and backup/restore configurations remotely.
Network	Protocol	Support static IP and dynamic IP (DHCP)
		• Support HTTP, HTTPS, SMB, ICMP, RTP, MMS, SYSLOG, NTP, FTP, RTSP
		Built-in Firewall Management
Resources	Cloud-based	Provide templates and materials in Library and Online Resources
Web Manager	Recommended browsers	Chrome 88, Edge 88, FireFox85
		Recommended browser: Chrome 88 or later
System Settings	Language	• User Interface: Chinese (Traditional), Chinese (Simplified), English, French, German, Italian, Japanese, Polish, Portuguese, Russian,
		Spanish, Thai
		• Ticker Support: Unicode (UTF-8) compatible languages; able to use default fonts or upload TTF fonts ⁽²⁾ .

Hardware Specifications

CPU	• AMD V1605B (4 Cores)
Memory	• DDR4 8GB
Graphic	• Radeon™ Vega 8 Graphics
Dimension	•180 (W) x 190 (D) x 19 (H) mm
Weight	• 0.87 Kg (1.92 lb)
N	• 10/100/1000 Mbps Ethernet x 2
Network	• 802.11 b/g/n/ac Wireless controller (optional)
Internal Storage	• 256GB M.2 SSD
External Storage	Supports up to 4TB
Video	• HDMI x 2.0 x 4
Audia	Phone Jack (Analog Stereo)
Audio	• HDMI Audio (Digital)
Support Video Streaming	HDMI Capture Card (USB UVC compatible device, Format: MJPG)*
Danner	• 100~240V AC (with external adaptor)
Power	• DC 19V, 3.42A
	• RS-232 (COM) x 1
Others	• USB 2.0 x 2
	• USB 3.0 x 2
Peripheral Accessories	Corner Mounts and Wall Mounts
Certificate	• CE, FCC, RoHS, CB, BSMI

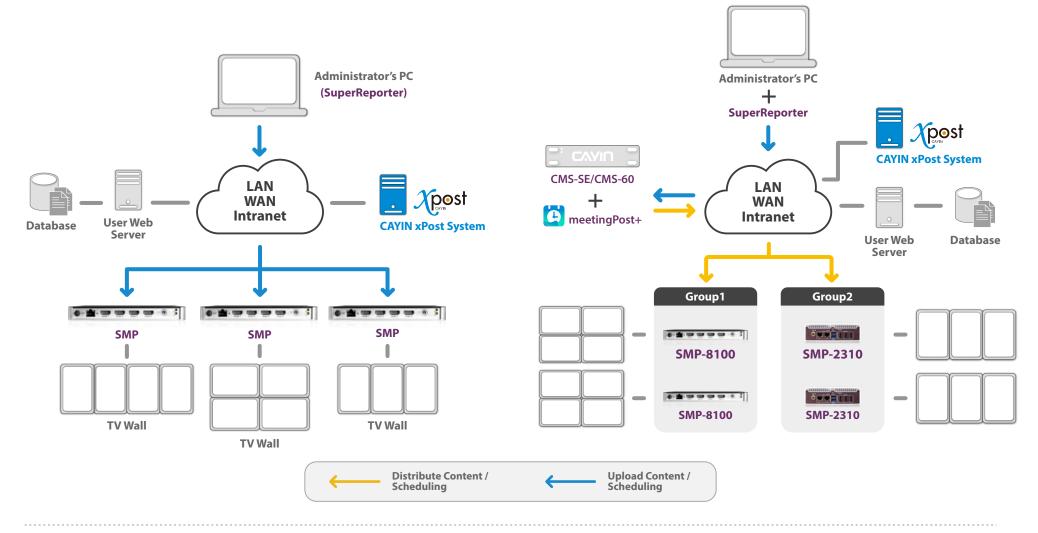
 $[\]ensuremath{^*}$ Please refer to online help for more information.



System Structure

Networked Standalone Digital Signage Player

Digital Signage Network with Client-Server Structure (CMS server + SMP player)



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