

Business Digital Signage

	Product Description, Components, Options and Contractual Parties
Product name	Business Digital Signage
Product description	Sunrise Business Digital Signage is a solution that redefines how businesses communicate and engage with their audience and consists of a player together with specific software and a content management system (CMS) (Product and Services). The Product and Services combine software for high-resolution displays with advanced content management capabilities, enabling dynamic, real-time updates, and interactive features. Customers are able seamlessly to deliver targeted messages, promotional content and essential information, all customised to meet specific needs and preferences. The Product and Services support a wide range of media formats, offering flexibility and creativity in content design. They enable integration with various systems, such as point of sale (POS), customer relationship management (CRM) and social media platforms and allow for a cohesive and impactful user experience. Whether for retail environments, corporate settings or public spaces, the Sunrise digital signage solution offers the perfect blend of innovation, efficiency and engagement. The Product and Services contain the following components: • Licence (two types of licences are available to be chosen by the customer: Basic and Pro) • Content management system (CMS): ARYA Cloud • Player (hardware, five different types of players may be chosen by the customer depending on functionalities and budgets) • Secure operating system on the players: DSOS • Option packages (available for the Pro licence only) For all detailed information regarding the Product and Services, please also see the Terms of Service and the End-User Licence Agreement (EULA). By using the Products and Services, the customer and any person acting through them may upload, or permit the upload of, content, information or materials to the Services (Content). The customer grants SpinetiX a non-exclusive, worldwide, royalty-free and revocable licence to use, reproduce, display and modify the Content solely to the extent necessary to perform the Services under this Contract.
Product components: Specifications of the players and licences	Players (Hardware) (Players): Depending on requirements, the customer can choose from five different players: - HMP400: 1 HDMI output, up to 4K resolution, PoE, no Wi-Fi - HMP400W: 1 HDMI output, up to 4K resolution, PoE, Wi-Fi - iBX410: 1 HDMI output, up to 4K resolution, no PoE, no Wi-Fi - iBX410W: 1 HDMI output, up to 4K resolution, no PoE, Wi-Fi - iBX440: 4 HDMI outputs, up to 8K resolution, no PoE, no Wi-Fi For further technical specifications regarding the Players, please see the section Technical Specifications below. Licences (Software): The Customer can choose between two licences:

Basic licence: The ARYA Basic licence provides access to core content management system (CMS) functionalities, making it the perfect entry-level option for those beginning their digital signage journey. For more ARYA content management system highlights, please see the section below.

Key features:

- 1 GB of secure cloud storage for hosting images, videos and PDF files
- 9 professionally designed templates (both horizontal and vertical) to support quick and easy content creation
- Unlimited screen connections, enabling users to expand their digital signage network without restriction
- Up to 10 players
- 1 single user

Pro licence: The ARYA Pro licence provides a robust foundation for scalable, secure and efficient signage operations within organisations. For more ARYA content management system highlights, please see the section below.

Key features:

- Unlimited users with comprehensive permission management
- 10 GB of cloud storage per player for enhanced content hosting capacity
- 12 customisable templates, including alert and overlay formats
- Audio file and playlist support, plus compatibility with HTML5 content (with the widget option)
- Content, player and user tagging for advanced organisation and control
- Priority scheduling and smart content synchronisation for efficient updates
- Video wall configuration made easy with the SpinetiX iBX440 player
- Player monitoring, reporting and audit trail logs for system transparency
- Advanced integrations with SpinetiX Elementi software (Feature Set or extended Enterprise plan required)

Additional options for both Basic and Pro licences:

- Single Sign-On (SSO) integration
- Batch Set-up for streamlined deployment

Each of those options is available for both Basic and Pro licences at a separate price to be provided by Sunrise at the customers' request.

ARYA content management system (CMS)

Highlights of the CMS ARYA Cloud:

- Completely hosted on AWS infrastructure. Nothing to be installed in Sunrise data centres or customers' sites.
- Multi-tenant-server. All customers are hosted in the same infrastructure.
- Visual, ergonomic and intuitive
- Content preview
- SaaS mode
- Web frontend
- AWS "Serverless" infrastructure, GDPR, C5, ISO 27001:2013
- Multi-user and multi-role
- Unlimited number of users with the Pro licence. One user for the Basic licence. Compatibility with SSO (single sign on).
- Multi-tags, media tags, user tags, player tags
- Smart synch (intelligent and automatic publication by tag)
- Automatic turning on and off of screens (detection of absence of content to be published) – reduction of energy costs
- Pair a media player with the cloud in less than two minutes
- Monitoring and asset management (notifications, firmware updates, reporting, etc.)

	- Media ingest, transcoding, media storage, media publication and asset management - Templates, customization, apps, creation - Auto-adaptation of templates in horizontal or vertical format - Content in "Alerts" mode for specific evacuation or fire messages based on building scenarios - Schedule and priority content - Online help chat with dedicated team
Product components: Option packages (for PRO licence only) and other options (at separate costs and separate customer request)	Option Packages: WIDGETS: The Widgets Feature Set enables playback of content created using the SpinetiX Elementi professional authoring tool. It empowers users to design and deliver high-impact, data-driven content that keeps audiences informed and engaged. Key Features: - Full compatibility with Elementi-created content. - Access to a comprehensive library of dynamic widgets for real-time data visualization (e.g., weather, news, social media, metrics). KIOSK: The Kiosk Feature Set builds upon the Widgets Feature Set, expanding its capabilities to support advanced interactive and HTML-based content. It is designed for environments that require engaging, touch-enabled user experiences. Key Features: - Includes all Widgets Feature Set functionalities. - Adds support for advanced HTML content in Elementi. - Enables creation and playback of interactive content for touchscreen displays. SYSTEMS: The Systems Feature Set is the most advanced option, incorporating all capabilities of the Kiosk Feature Set and adding powerful tools for complex, large-scale digital signage deployments. Key Features: - Includes all Kiosk Feature Set functionalities. - Multiscreen synchronisation and video wall support for immersive visual experiences. - Custom resolution management for non-standard or specialized display configurations. - IPTV and streaming support, enabling integration of live video feeds. Seamless integration with third-party systems such as queue management, room reservation, and other enterprise applications.
Contractual parties and technology partner	Sunrise is the Customer's sole contractual partner. However, Sunrise is entitled to have the Products and Services provided one or more technology partners ("Technology Partner"), in which case the latter shall not become parties of this Contract with the Customer. As of the date of this Factsheet, SpinetiX SA ("SpinetiX") is used as Technology Partner and supplier of the Products and Services. All pre-existing or newly created intellectual property rights (copyrights, patent rights, trademark rights, etc.) relating to Sunrise's Products and Services remain exclusively with Sunrise and/or the Technology Partner. Sunrise is also entitled, at its own discretion and in its own decision, to replace the Technology Partner during the term of this contract and to have the Products and

	Services provided by itself or by another Technology Partner.
	Product Packages, Prices and Payment Terms
Standard packages	Standard packages are limited to 10 players maximum per Customer: Business Digital Signage S, includes: 1 to 10 iBX410W Player(s) - Basic Licence(s) (per Player) Price: CHF 1'010.00 per Player ("One-Time Fee") and CHF 5.00 / month per Licence ("Licence Fee") Business Digital Signage M, includes: 1 to 10 iBX410W Player(s) - Pro Licence(s) (per Player) Price: CHF 1'010.00 per Player ("One-Time Fee") and CHF 38.00 / month per Licence ("Licence Fee") Business Digital Signage L, includes: 1 to 10 iBX410W Player(s) - Pro Licence(s) (per Player) - Widgets Feature Set Price: CHF 1'825.00 per Player (including Widgets Feature Set) ("One-Time Fee") and CHF 38.00 / month per Licence ("Licence Fee") All prices are in CHF and exclusive of taxes, duties and fees. The One-Time Fee is billed after the Activation Date. The Licence Fee is billed monthly in advance. In the first billing month, in addition to the One-Time Fee and the monthly Licence Fee for the current billing month, the monthly Licence Fee for the second billing month will also be charged.
Custom set-ups	Custom set-ups with more players and/or different combinations with regard to players, licences as well as additional options and option packages are available. In this case, a personalised offer is provided by Sunrise following a customer needs assessment and solution components selection. For such custom set-up, prices will be customised to the customer's needs and specified in the relevant offer.

Warranty for SpinetiX Players (Hardware/Players)

General	Sunrise integrates Product and Services provided by SpinetiX. For the Product and Services provided, including but not limited to hardware, software, receivers and end devices, the warranty of SpinetiX applies exclusively. To the extent permitted by law, Sunrise excludes any warranty for the Product and Services of SpinetiX, even though these are part of the Services offered by Sunrise. Sunrise shall assign to the Customer any claims against SpinetiX. Repairs are the responsibility of the Customer, unless otherwise stated in this Contract. Except as expressly set forth in this Contract, Products and Services are provided on an "as is" basis, and SpinetiX makes no warranties of any kind except the warranty in this Contract, whether express, implied, statutory, or otherwise, including without limitation any implied warranties of merchantability, satisfactory quality, fitness for a particular purpose, non-infringement or that the operation of Product and Services will be uninterrupted or error-free. In addition, the Customer acknowledges that the proper functioning of SpinetiX Products and Services depends, in part, on third-party technologies, systems, operating systems and network configurations, which may cause errors or failures. Any changes, interruptions or instability affecting such third-party products or services may materially and adversely affect, or completely prevent, the end customers' use of or access to Products and Services. The Customer further acknowledges that during such periods access to Products and Services may be limited or unavailable, with or without prior notification to the end customer.
Hardware standard warranty	SpinetiX manufactures the Players from parts and components that are new or equivalent to new, in accordance with industry-standard practices. SpinetiX warrants to the Customer in accordance with the following provisions that Players, purchased by the Customer from Sunrise, will be free from defects in materials, workmanship and design affecting normal use, for 36 months from the date of invoice to the Customer from Sunrise (Standard Warranty).
Hardware extended warranty	The Extended Warranty, where available, extends the Standard Warranty for an additional 24 months from the last day of the Standard Warranty period (Extended Warranty) and is available at the Customer's request for the following players, if all additional requirements are fulfilled: (a) HMP400 and HMP400W (b) iBX410 and iBX410W (c) iBX440 The Extended Warranty, is available: (d) if the Extended Warranty is purchased by the Customer within 60 days of the Customers' (original) purchase of the Player(s) to which it relates at a specific fee provided by Sunrise at the Customers' request; (e) if the Customer provides to Sunrise the original sales receipts of the applicable Player(s) prior to purchase; and (f) if Sunrise confirms that the Extended Warranty can be granted to the Customer and the Player(s) that form part of the Customers' request. In addition, an Extended Warranty is only valid if Sunrise issues to the Customer an Extended Warranty certificate which contains: (g) the serial numbers and the date of purchase for (each of) the Player(s) covered by the Extended Warranty; and (h) the date of purchase of the Extended Warranty.

	The Extended Warranty is in addition to, and shall not in any way affect, any of the Customers' statutory, contractual dealer warranty or other rights.
Repair or replacement	Players for which proper Standard Warranty or Extended Warranty claims are made, will, at SpinetiX's option, be repaired or replaced free of charge. SpinetiX shall own any replaced Players and all parts removed from repaired Players. SpinetiX uses new and reconditioned parts made by various manufacturers in performing repairs and building replacement Players. SpinetiX is not liable in any respect for, nor does it provide, any installation or re-installation service in respect of any repaired or replaced Players. The Customer's sole and exclusive remedy against SpinetiX and Sunrise under the Standard Warranty and any Extended Warranty is for the repair of the applicable Players or their parts (or, at SpinetiX's discretion, replacement of the Players or any defective part or parts thereof). No other remedy, including, without limitation, any claim for incidental or consequential damage or loss of whatsoever nature, shall be available to the Customer.
Exclusions	These warranties, including any Extended Warranty, do not apply to, and under no circumstances shall Sunrise or SpinetiX bear any liability for any physical or other damages whether to persons or to equipment of any kind which may have resulted directly or indirectly from, misuse of the players, defects from improper or inadequate installation, use or maintenance, actions or modifications by unauthorised third parties or the Customer, or accidental or wilful damage. These warranties (Standard Warranty and Extended Warranty) do not apply to the external power-supply unit nor the internal memory medium.
Making a claim	To make a claim, the Customer must first contact Sunrise who will then inform the Customer of its return-material authorisation procedure (Warranty claim procedure to follow). SpinetiX is not able to accept returns or provide replacement or repaired Players directly to Customers who purchased the Players from Sunrise (however, SpinetiX will honour any valid Warranty claim from Sunrise). Sunrise has the right to reject the Warranty claim if the Customer does not follow and fully cooperate with its return-material authorisation procedure. To make a claim under an Extended Warranty, the Customer must provide a copy of the original invoice covering the purchase of the applicable Players and the Extended Warranty Certificate, if applicable.

Warranty for SpinetiX Software and Services

General	Sunrise integrates Product and Services provided by SpinetiX. For the Product and Services provided, including but not limited to hardware, software, receivers and end devices, the warranty of SpinetiX applies exclusively. To the extent permitted by law, Sunrise excludes any warranty for the Product and Services of SpinetiX, even as these are part of the Services offered by Sunrise. Sunrise shall assign to the Customer any claims against SpinetiX. Repairs are the responsibility of the Customer, unless otherwise stated in this Contract. Except as expressly set forth in this Contract, Products and Services are provided on an "as is" basis, and SpinetiX makes no warranties of any kind except the Warranty in this Contract, whether express, implied, statutory or otherwise, including without limitation any implied warranties of merchantability, satisfactory quality, fitness for a particular purpose, non-infringement or that the operation of Product and Services will be uninterrupted or error-free. In addition, the Customer acknowledges that the proper functioning of SpinetiX Products and Services depends, in part, on third-party technologies, systems, operating systems and network configurations, which may cause errors or failures. Any changes, interruptions or instability affecting such third-party products or services may materially and adversely affect, or completely
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	prevent, the end customers' use of or access to SpinetiX Products and Services. The Customer further acknowledges that during such periods access to SpinetiX Products and Services may be limited or unavailable, with or without prior notification to the end customer.
Limited warranty	The Customer has a right of return according to the End-User Licence Agreement (EULA). In addition, the End-User Licence Agreement (EULA) and the Terms of Service apply.

	General
Support	- An online chat is available on the ARYA CMS interface. The chat is managed by humans, and the team is available to answer questions between 7:00 and 12:00 CET every day. This chat should be used for general usage questions. - A wiki is available 24/7 and contains all the necessary technical information: https://support.spinetix.com/wiki/Main_Page - General questions: Please contact your personal advisor or call 0800 555 554. - Technical phone support on 0800 550 020 Level 1 support is provided by the Sunrise hotline as stated above. Level 2 and Level 3 support are provided by our Technology Partner. However, Sunrise is the unique communication channel for the Customer; the coordination with the Technology Partner is therefore managed by Sunrise. Support is provided on best-efforts basis.
Contract structure, appendices and applicable provisions	This Product Description / Factsheet together with an order from the Customer (signed offer, individual contract) and together with the following appendices and applicable provisions, form together the Contract with the Customer. The appendices in their current version form an integral part of the Contract (available at: https://www.sunrise.ch/business/en/solutions/cloud/digital-signage) and shall be applied in the agreed order in the event of contradictions. A Management Summary sent at the same time is not part of the contract. Appendices and applicable terms: - Individual contract (order form / signed offer) - Factsheet Business Digital Signage - Terms of Service - End-User Licence Agreement (EULA)

	- General Terms and Conditions for Business Customers of Sunrise GmbH (available at www.sunrise.ch/business/en/legal)
Data protection	Sunrise shall not be liable for any loss, breach or corruption of data arising from or in connection with the use of this Product or related Services. This exclusion applies to all forms of data, whether stored, transmitted or processed, and covers any direct, indirect, incidental or consequential damages, including costs of data recovery or restoration. Customers are solely responsible for implementing appropriate backup, security and integrity measures for their data. The General Terms and Conditions for Business Customers, the EULA and the Terms of Service apply. The Customer acknowledges and agrees that its personal data (company name, company details, contact person, contact details) will be transmitted to the Technology Partner to the extent necessary for the provision of the Products and Services.
Price adjustments	Sunrise has the right to change the price with at least thirty (30) days' prior written notice to the Customer.
Website	More details and application examples can be found at: https://www.sunrise.ch/business/en/solutions/cloud/digital-signage
Last updated	November 2025

Technical Specifications – Players

SpinetiX iBX410 and iBX410W players

Connectors and ports

Video	HDMI 2.0b
USB port	3 x USB 3.1
Serial port	RS-232 via special RJ45 accessory cable (not included)
Network	Ethernet 2.5GbE, IEEE 802.3bz, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3az iBX410W (with Wi-Fi module): Wi-Fi IEEE 802.11a/b/g/n/ac Wave 2, 2x2 MIMO
Power supply	12V DC, 60W, power connector is lockable, power supply included

Size and Weight

Size	Width: 7.13" / 181mm, height: 0.85" / 21.5mm, depth: 4.84" / 123mm
Weight	840g

DSOS (Digital Signage Operating System)

DSOS™	Lightweight, high performance and secured operating system designed for digital signage enabling by default SpinetiX ARYA™ CMS
OS security	Cryptographically signed firmware packages, local access to OS restricted, Intel™ Boot Guard protection, Secure Boot
Optional features	Different optional usage modes to be activated on top of the built-in SpinetiX ARYA™ CMS

Player engine

Layer composition	Multi-layer, multi-video decoding capability; video with alpha channel
Fonts	Built-in fonts (including Noto fonts) for any language. In addition, any custom font may be uploaded. Support for TrueType/OpenType fonts.
Content languages	HTML5, SVG Tiny 1.2+
Scripting language	JavaScript (ECMAScript 5), jSignage™, WebStorage, XMLHttpRequest
External data access	AJAX, REST, HTTP/HTTPS with custom certificates or SRP, raw TCP/UDP

Formats

Images	JPEG, PNG, GIF, SVG, PDF/A
Media file formats	MPG, MP4, M4V, M4A, MOV, MKV, MKA, WMV, WMA, AVI, VOB, TS, MP3, AAC, WAV
Video codecs	Multi-video decoding capable, 4K60p 4:4:4, H.264/MPEG-4 AVC: HP@L5.2, H.265/MPEG-H HEVC: L5.1, MPEG-2: MP@HL, MPEG-4: ASP, WM9/VC-1: AP@L3, MJPEG
Audio codecs	AAC-LC, HE-AAC, MPEG Layer I, II, III (MP3), WMAv2, AC3
Data feeds	Built-in RSS app, Elementi feeds RSS, ICS, CSV, TXT, custom feeds (XML, JSON, JavaScript)

Displays

Video	DCI 4K (4096×2160), 4K UHD (3840x2160), 1080p (1920x1080), custom resolutions, etc.
Audio	Up to eight-channel digital audio over HDMI, stereo analogue output, stereo analogue input (function not available in current DSOS versions)
Control	DVI-D style display power management signalling, serial port (advanced protocols, accessory required)

Network

Protocols	DHCP, static IP, Zeroconf, IPv4, IPv6, NTP, Bonjour, SSDP, SNMPv1/v2c, HTTP/HTTPS, TLS-SRP, user root certificates, WebDAV, FTP, RTSP, RTP/UDP, 802.1x
Remote configuration	Built-in HTTP server, HTTPS with user root certificates, RPC

Storage

Internal	Industrial 128 GB SSD
External	Hard disk (via USB 3.1)

Characteristics

Processor	Intel™ Atom x6211E
Memory	RAM: 8 GB DDR4-3200
Operating temperature	Ambient range 32 – 104°F / 0 – 40°C, relative humidity 10 – 90% non-condensing
Real-time clock (RTC)	Accuracy ±1 min./month, battery-backed
Usage	Commercially robust, fanless, ultra-flat and compact design for 24/7 operation
IP code	IP40
Miscellaneous	Mounting brackets included

SpinetiX HMP400 and HMP400W players

Connectors and ports

Video	HDMI 2.0 (lockable) or DisplayPort 1.2 (USB-C lockable alternate mode)
USB port	3 x USB 3.0 (USB-C lockable)
Network	Ethernet 1GbE, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3az. HMP400W (with Wi-fi module): Wi-Fi IEEE 802.11a/b/g/n/ac Wave 2, 2x2 MIMO
Power supply	Power over Ethernet (PoE+/802.3at) or USB-C lockable Power Delivery 2.0, 27W (min 3A@9V)

Size and Weight

Size	Width: 7.87" / 200mm, height: 1.1" / 28mm, depth: 4.72" / 120mm
Weight	660g

DSOS (Digital Signage Operating System)

DSOS™	Lightweight, high performance and secured operating system designed for digital signage enabling by default SpinetiX ARYA™ CMS
OS security	Cryptographically signed firmware packages, local access to OS restricted, Intel™ Boot Guard protection, Secure Boot
Optional features	Different optional usage modes to be activated on top of the built-in SpinetiX ARYA™ CMS

Player engine

Layer composition	Multi-layer, multi-video decoding capability, video with alpha channel
Fonts	Built-in fonts (including Noto fonts) for any language. In addition, any custom font may be uploaded. Support for TrueType/OpenType fonts.
Content languages	HTML5, SVG Tiny 1.2+
Scripting language	JavaScript (ECMAScript 5), jSignage™, WebStorage, XMLHttpRequest
External data access	AJAX, REST, HTTP/HTTPS with custom certificates or SRP, raw TCP/UDP

Formats

Images	JPEG, PNG, GIF, SVG, PDF/A
Media file formats	MPG, MP4, M4V, M4A, MOV, MKV, MKA, WMV, WMA, AVI, VOB, TS, MP3, AAC, WAV

Video codecs	Multi-video decoding capable, 4K60p 4:4:4, H.264/MPEG-4 AVC: HP@L5.2, H.265/MPEG-H HEVC: L5.1, MPEG-2: MP@HL, MPEG-4: ASP, WM9/VC-1: AP@L3, MJPEG
Audio codecs	AAC-LC, HE-AAC, MPEG Layer I, II, III (MP3), WMAv2, AC3
Data feeds	Built-in RSS app, Elementi feeds RSS, ICS, CSV, TXT, custom feeds (XML, JSON, JavaScript)

Displays

Video	DCI 4K (4096×2160), 4K UHD (3840x2160), 1080p (1920x1080), custom resolutions, etc.
Audio	Up to eight-channel digital audio over HDMI / DisplayPort / USB-C, stereo analogue audio (line level, accessory required)
Control	HDMI-CEC, DisplayPort, serial port (advanced protocols, accessory required)

Network

Protocols	DHCP, static IP, Zeroconf, IPv4, IPv6, NTP, Bonjour, SSDP, SNMPv1/v2c, HTTP/HTTPS, TLS-SRP, user root certificates, WebDAV, FTP, RTSP, RTP/UDP, 802.1x
Remote configuration	Built-in HTTP server, HTTPS with user root certificates, RPC

Storage

Internal	16 GB solid state, eMMC 5.1 Industrial MLC NAND with OS in higher endurance SLC area
External	Hard disk (via USB 3.0)

Characteristics

Processor	Intel™ Atom x5-E3930
Memory	RAM: 4 GB, LPDDR4-2400
Power consumption	Typical 9W; max: 14W
Operating temperature	Accuracy ±1 min./month, back-up by supercap (30 days)
Real-time clock (RTC)	All components rated for 24/7 – 10-year operation, fanless sealed design. Engineered in Switzerland and made in Germany.
Usage	All components rated for 24/7 – 10-year operation, fanless sealed design. Engineered in Switzerland and made in Germany.
IP code	IP40

SpinetiX iBX440 player

Connectors and ports

Video	4x HDMI 2.0
USB port	3 x USB 3.1 10 Gbit/s, 1x USB 2.0
Serial port	RS-232 via special RJ45 accessory cable (not included)
Network	2 x Ethernet 1GbE, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3az (port 2 reserved for local diagnostics)
Power supply	12V DC, 84W, lockable

Size and Weight

Size	Width: 7.90" / 200.8mm, height: 1.62" / 41.2mm, depth: 5.48" / 139.3mm
Weight	1.8kg / 3.7lbs

DSOS (Digital Signage Operating System)

DSOS™	Lightweight, high-performance and secured operating system designed for digital signage enabling by default SpinetiX ARYA™ CMS
OS security	Cryptographically signed firmware packages, local access to OS restricted, Intel™ Boot Guard protection, Secure Boot
Optional features	Different optional modes of use to be activated on top of the built-in SpinetiX ARYA™ CMS

Player engine

Layer composition	Multi-layer, multi-video decoding capability, video with alpha channel, 8K60p 4:4:4, 4x4K60p 4:4:4, 4x4K60p HDR 4:2:0
Fonts	Built-in fonts (including Noto fonts) for any language. In addition, any custom font may be uploaded. Support for TrueType/OpenType fonts.
Content languages	HTML5, SVG Tiny 1.2+
Scripting language	JavaScript (ECMAScript 5), jSignage™, WebStorage, XMLHttpRequest
External data access	AJAX, REST, HTTP/HTTPS with custom certificates or SRP, raw TCP/UDP
Multi-player synchronisation	Sub-millisecond-accurate synchronisation across multiple players

Formats

Media file formats	JPEG, PNG, GIF, SVG, PDF/A, MPG, MP4, M4V, M4A, MOV, MKV, MKA, WMV, WMA, AVI, VOB, TS, MP3, AAC, WAV

Video codecs	Multi-video decoding capable, 8K60p, H.264/MPEG-4 AVC: HP@L5.2, H.265/MPEG-H HEVC: Main 10@L6.1, MPEG-2: MP@HL, MPEG-4: ASP, WM9/VC-1: AP@L3, MJPEG, AV1 Main@L6.1
Audio codecs	AAC-LC, HE-AAC, MPEG Layer I, II, III (MP3), WMAv2, AC3, Opus
Data feeds	Built-in RSS app, Elementi feeds RSS, ICS, CSV, TXT, custom feeds (XML, JSON, JavaScript)

Displays

Video	Up to four fully synchronised outputs, 4K UHD (3840x2160), 1080p (1920x1080), custom resolutions, HDR capable
Audio	Up to eight-channel digital audio over HDMI, stereo analogue output (line level)
Control	Serial port (advanced protocols, accessory required)
Output limitations	All displays must have the same orientation and use the same video mode.

Network

Protocols	DHCP, static IP, Zeroconf, IPv4, IPv6, NTP, Bonjour, SSDP, SNMPv1/v2c, HTTP/HTTPS, TLS-SRP, user root certificates, WebDAV, FTP, RTSP, RTP/UDP, 802.1x
Remote configuration	Built-in HTTP server, HTTPS with user root certificates, RPC

Storage

Internal	Industrial 128 GB SSD
External	Hard disk (via USB 3.1)

Characteristics

Processor	Intel® Core™ I5-1145G7E
Memory	RAM: 2x 8GB DDR4-3200
Operating temperature	Ambient range 32 – 113°F / 0 – 45°C, relative humidity 10 – 90% non-condensing
Real-time clock (RTC)	Accuracy ±1 min./month, battery-backed
Usage	Commercially robust, external fan design for 24/7 operation. Made in Taiwan.
IP code	IP30
Miscellaneous	Mounting brackets included