SPINETIX™

N°1 IN DIGITAL SIGNAGE SOLUTIONS

iQnetiX EMP-III: specification, licenses

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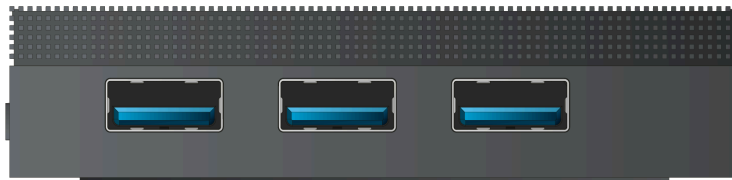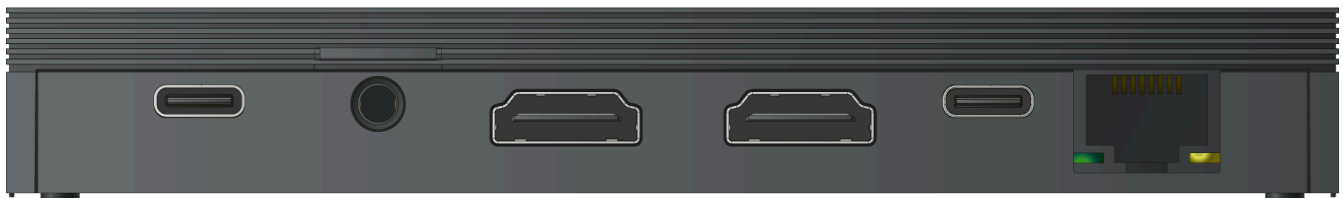
INTERFACES

Video	HDMI 2.0 x 2, USB Type-C (DP1.4). Only one of the outputs could be active.
Audio	Stereo digital (HDMI / DisplayPort), Stereo analog line-level (3.5 mm). Audio 5.1 / 7.1 — digital interfaces.
Network	1Gb LAN RJ-45 Jack (Realtek RTL8111H)
USB	USB3.0 (2x USB3.2 Gen 2=10Gbps, 1x USB3.1 Gen 1=5Gbps), USB Type-C (1x USB3.1 Gen 1=5Gbps)
Serial port	USB
Power supply	12 — 18VDC USB Type-C. PD3.0 supported. Power supply 12V/2A included.

DISPLAYS, PROJECTORS, LED SCREENS

Resolution	4K (4096×2160@60fps), UHD (3840x2160@60fps), 1080p (1920x1080@60fps) Custom resolution within 4096x2160px with Systems hardware license
Display Control	DisplayPort, Serial port, REST, Telnet

SIZE & WEIGHT, OPERATION CHARACTERISTICS

Size	Mediaplayer 131mm / 81mm / 18,3mm Box 165mm / 110mm / 65mm
Weight	Mediaplayer 211 gr Carton box with mediaplayer and power supply — NET 525 gr, GROSS 580 gr
Power consumption	24W
Operating and storage conditions	Operating temperature from 0 to 30ºC, Storage temperature from -10 to - 50ºC, Relative humidity 35-80% non-condensing
Packaging	Cardboard box with media player, power supply and mounting kit.
Warranty	3 years included limited hardware warranty. Could be extended up to 5 years.

TECHNOLOGY

Components	All components are industrial grade, rated for 24/7, fanless sealed design. No moving parts, passive cooling.
CPU	Intel® Celeron® N5105	2GHz with 2.9GHz Burst	4 Core - 4 Thread	4MB Cache	10W
RAM	4GB Soldered LPDDR4x-2933 MHz SODIMMs
Storage	64GB solid state, eMMC. Via USB 3.0 – any external drives and flash drives, SSD up to 8TB. It is possible to use the player in a client-server architecture, with centralized storage or uploading data.
OS	DSOS™ provided by SpinetiX. No access for modification, reinstallation, settings of operation system.
Content structure	Layered (any number of layers), composite layouts, playlists, calendars. Library: widgets, parsers, date / time, interactive, etc. Multi-video decoding capability. Video with alpha channel,

	real time content generation using svg and javascript libraries, HTML5 web content, live video, streaming. Some features require a special hardware license.
Animation	Hardware animation and effects
Text	Vector text, custom fonts available
Main language	SVG Tiny 1.2+, HTML5 (html5 test score 528 из 555).
Scripts	JavaScript (ECMAScript 5), jSignage™, WebStorage, XMLHttpRequest
External data access	AJAX, REST, HTTP/HTTPS with custom certificates or SRP, raw TCP/UDP
Real-time clock (RTC)	Accuracy ±1 min./month, automatic synchronization (NTP), backup by supercap (30 days)
HTML5 rendering	Full frame 60fps
Playback control & external data access	With Systems hardware license: REST, Telnet, Serial, raw TCP/UDP, USB, RDP. Switching content using external devices (Crestron, AMX etc), web pages, dry contacts (additional hardware and software code required)
Remote configuration	Built-in HTTP server, HTTPS with custom certificates, RPC
Monitoring	SNMP, RPC, Simplified web monitoring, Monitoring services
Security	Cryptographically signed firmware packages, local access to OS, BIOS and bootloader restricted, Intel™ Boot Guard protection, Secure Boot, connecting input-output devices does not affect access to system settings, physical access to the player does not allow for reconfiguring or substituting content
Recovery	Dedicated recovery space, Safe mode, Recovery console

MEDIA FORMATS

Images	JPEG, PNG, GIF, SVG
Media file formats	MPG, MP4, M4V, M4A, MOV, MKV, MKA, WMV, WMA, AVI, VOB, TS, MP3, AAC, WAV
Video codecs	Multi-video decoding, 4K60p, 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	RSS, ICS, CSV, TXT, XML, JSON

CONTENT EDITING SOFTWARE AND CONTENT PUBLISH

Cloud software	SpinetiX ARYA: Free, Pro, Enterprise. Centralized work with content with different editing options.
Desktop software	SpinetiX Elementi. Centralized work with rich content, incl. complex scripts, programming and widgets.
Working without any cloud or desktop software	Implemented by automating the processes of receiving content by players from various sources. Client-server technology, data parsing, network storage usage, value substitution, data driven content, machine-to-machine communication.

LICENSES

	ARYA (included)	Widgets	Kiosk	Systems
Content upload	SpinetiX ARYA Cloud (Free, Pro, Enterprise)	Elementi software push and pull modes, content delivery planner, client-server playback		

Content creation	Templates editing: text, font and color.	All Drag&drop, layers, embedded viewer — visual editor, scheduling, templates, playlists, effects, animation, data parsing, automation, interactive scenarios		
External data	RSS, weather, clocks, QR codes	250 widgets. Example: Microsoft Azure, Office 365, G-Suite, Google services, Facebook, Instagram, Twitter, Flickr, financial data, exchange rates, any data sources with raw data (XML, JSON, CSV, TXT, RSS)		
Formats	Cloud transcoding (any)	JPEG, PNG, GIF, SVG, MPG, MP4, M4V, M4A, MOV, MKV, MKA, WMV, WMA, AVI, VOB, TS, MP3, AAC, WAV		
Video output	16:9, 9:16, 16:10, 10:16, 4:3, 3:4	16:9, 9:16, 16:10, 10:16, 4:3, 3:4		Any custom
Transparency	PNG	PNG, MP4 Alpha channel		
Schedule	Dynamic playlists, 10-minute slot	Any object (visual, video, commands), any time slot		
Interactivity		HID devices interactive with widgets. RS-232 interactivity.	Widgets plus HTML5 interactive	Widgets, HTML5, API. Custom equipment integration content management.
HTML5			HTML5 optimized playback with 60fps and full resolution	
Live video				RTSP, RTP, UDP Multicast/Unitast
Devices synchronization, videowalls				Any quantity of devices could be synchronized with 1 frame accuracy

To operate the Elementi software, one of hardware license is required: Widgets, Kiosk or Systems

Each subsequent license includes the functionalities of the previous ones. The Kiosk license includes the Widgets license. The Systems license includes both Widgets and Kiosk licenses.

Hardware licenses — Widgets, Kiosk, and Systems — are purchased separately from the mediaplayer, or as a bundle with mediaplayer

Warranty — 3 or 5 years (extended), by device serial number

Country of origin (hardware): Kazakhstan. Country of origin (software): Switzerland

Factory: Billboardvideo Engineering LLC https://billboardvideo.com | info@billboardvideo.com

Software: SpinetiX A.G. https://spinetix.com | info@spinetix.com

Sales, partners program, technical support, RMA, certification, trainings, content services:
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All sales to the endusers are conducted exclusively through certified integrators, who are partners of SpinetiX ecosystem