HMP400
Your reliable partner for any signage scenario
**Technical specifications**

**HMP400 & HMP400W**

### CONNECTORS & PORTS

<table>
<thead>
<tr>
<th>Video</th>
<th>HDMI 2.0 (lockable) or DisplayPort 1.2 (USB-C lockable alternate mode)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB port</td>
<td>3x USB 3.0 (USBC lockable)</td>
</tr>
<tr>
<td>Network</td>
<td>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</td>
</tr>
<tr>
<td>Power supply</td>
<td>Power over Ethernet (PoE+/802.3at) or USB-C lockable Power Delivery 2.0, 27W (min 3A@9V)</td>
</tr>
</tbody>
</table>

### SIZE & 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™ cloud based service

**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™ cloud based service

### 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 can 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, 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, MIPEG

**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 (4096x2160), 4K UHD (3840x2160), 1080p (1920x1080), custom resolutions, etc.

**Audio**
- Up to 8 channel digital audio over HDMI / DisplayPort / USB-C, stereo analog 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**
- Ambient range 32 - 104°F / 0 - 40°C, Relative humidity 10-90% non-condensing

**Real-time clock (RTC)**
- Accuracy ±1 min./month, backup by supercap (30 days)

**Usage**
- All components rated for 24/7 - 10 years operation, fanless sealed design. Engineered in Switzerland and made in Germany.

**IP Code**
- IP40

### WARRANTY

**Warranty**
- 3 years included limited hardware warranty, extendable to 5 years