

# BrightSign models, side-by-side

MODEL	LS424	HD224	HD1024	HO523	XD234	XD1034	XT244	XT1144
	Standard I/O Entry-level	Standard I/O Mainstream	Standard I/O Mainstream	OPS Compatible Mainstream	Standard I/O Advanced	Expanded I/O Advanced	Standard I/O Enterprise	Expanded I/O Enterprise
<b>VIDEO ENGINE DECODER</b>								
Single 1080p60 video decoding	X	X	X	X	X	X	X	X
Dual 1080p60 video decoding					X	X	X	X
Native 4K@60p		X	X		X (Dolby Vision and HDR10+)**	X (Dolby Vision and HDR10+)**	X (Dolby Vision and HDR10+)**	X (Dolby Vision and HDR10+)**
Dual 4K video decoding							X	X
4K Full Resolution Graphics							X	X
<b>MEDIA FORMATS</b>								
Video codecs supported for 4K content: H.265/H.264		X	X		X	X	X	X
Video Containers for 4K H.265 content: .ts, .mov, .mp4, .mkv		X	X		X	X	X	X
Video Codecs for Full HD: H.265, H.264 (MPEG-4, Part 10), MPEG-2	X	X	X	X	X	X	X	X
Video Containers for Full HD content: .ts, .mpg, .vob, .mov, mp4, .m2ts	X	X	X	X	X	X	X	X
Images: BMP, JPEG, PNG	X	X	X	X	X	X	X (up to 4K)	X (up to 4K)
Audio: MP2, MP3, AAC and WAV (AC3 is passed through)	X	X	X	X	X	X	X	X
HTML5 Support	X (Entry-level)	X (Mainstream)			X (Advanced)		X (Enterprise)	
<b>DISPLAY RESOLUTIONS</b>								
4K resolutions: 4096x2160x24/25/30/50/60p, 3840x2160x24/25/30/50/60p, 3840x600x60p		X	X		X	X	X	X
Upscaling to: 3840x2160x24/25/29.97/30p		X	X		X	X	X	X
1920x1080x24/25/29.92/30/50/59.94/60p, 1920x1080x50/59.94/60i, 1600x1200x60p, 1440x1050x60/75p, 1440x900x60/75p, 1360x768x60p, 1280x1024x60/75p, 1280x960x60p, 1280x800x60p/75p, 1280x768x60p, 1280x720x50/59.94/60p, 1024x768x60p, 800x600x60/75p, 720x576x50p/50i, 720x480x59.94/60p/60i, 640x480x60p	X	X	X	X	X	X	X	X
<b>HARDWARE INTERFACES</b>								
Locking Power Connector					X	X	X	X
External micro SD Slot (SDHC and SDXC); SDHC Storage via SDXC (up to 2TB)	X	X	X	X	X	X	X	X
M.2 SSD PCIe Interface					X	X	X	X
USB High Speed Host Port (also supports content updates)	X (Type C)		X (Type A)	X (2 Type A ports)		X (2 ports: Type A&C)		X (2 ports: Type A&C)
12-pin Phoenix GPIO port with 8 bi-directional GPIOs		X	X	X (6-pin)	X	X	X	X
3.5mm RS-232 Serial Port			X	X		X		X
3.5mm IR In/Out				X	X	X	X	X
3.5mm Audio Out (analog & SPDIF digital)		X	X	X	X	X	X	X
Analog stereo audio (requires USB adapter cable)	X							
HDMI Out	X (1.4a)	X (2.0a)	X (2.0a)	X (1.4 via JAE)	X (2.0a)	X (2.0a)	X (2.0a)	X (2.0a)
HDMI 2.0a Input								X
Ethernet	X (100baseT)				X (Gigabit)			
Power over Ethernet (PoE+)							X	X

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<b>HARDWARE INTERFACES</b>								
M.2 (E) Keyed Wi-Fi/Bluetooth Connector	X	X	X	X	X	X	X	X
Status LEDs	Power	Power, Error, Busy, Update						
Reset and Services Button	X	X	X	X	X	X	X	X
Real Time Clock	X	X	X	X	X	X	X	X
<b>FEATURES</b>								
H.265 Decoding: smaller file sizes and lower bitrates than H.264 HDMI 2.0	X	X	X	X	X	X	X	X
4K Video		X	X		X	X	X	X
Dolby Vision and HDR10+					X	X	X	X
4K Full Resolution Graphics							X	X
Live TV: brings Live TV to your signage via HDMI 2.0a Input, even HDCP-protected content								X
HTML5: hardware-accelerated rendering engine to play modular HTML assets flawlessly alongside high-bandwidth video	X (Entry-level)	X (Mainstream)			X (Advanced)		X (Enterprise)	
BrightBeacon™: 2-way Bluetooth/Beacon communication between mobile devices & signage. Requires optional Wireless/Bluetooth module.	X	X	X	X	X	X	X	X
Zones: Playback multiple content types on a single screen	X	X	X	X	X	X	X	X
BrightWall™: synchronized playback across multiple displays	X	X	X	X	X	X	X	X
AutoWall™: HTML5 based synchronized video walls	X	X	X	X	X	X	X	X
Mosaic Mode: play a multitude of smaller resolution videos simultaneously that add up to the maximum video resolution of the player		X	X	X	X	X	X	X
IP Streaming: play streaming media	X	X	X	X	X	X	X	X
Interactivity: connect virtually any interactive device to a multitude of ports	X (USB, UDP)	X (GPIO, UDP)	X (GPIO, USB, Serial, UDP)		X (GPIO, IR, UDP)	X (GPIO, USB, Serial, IR, UDP)	X (GPIO, IR, UDP)	X (GPIO, dual USB, Serial, IR, UDP)
Live Feeds: Live Data, Live Text, MRSS, Twitter, Flickr, etc.	X	X	X	X	X	X	X	X
Tagging: Brightsign Network users can assign media and player tags for highly targeted content distribution	X	X	X	X	X	X	X	X
BrightSign App: update signs via iOS device	X	X	X	X	X	X	X	X
Geo-Fencing: trigger playback based on location	X		X	X		X		X
Sign Preview: preview presentation playback in BrightAuthor	X	X	X	X	X	X	X	X
Remote Snapshot: remotely view a snapshot image of the display's playback	X	X	X	X	X	X	X	X
Extended Thermal: supports ambient temperatures between 0° & 70° C at 90% max relative humidity, non-condensing		X	X	X	X	X	X	X
Networking: update, manage and schedule your signage	X	X	X	X	X	X	X	X
B-deploy: A setup feature to deploy many players at once	X	X	X	X	X	X	X	X

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SOFTWARE								
Free BrightAuthor Software	X	X	X	X	X	X	X	X
BrightSign Networking Options	X	X	X	X	X	X	X	X
ACCESSORIES								
USB Button Pads	X		X	X		X		X
Wireless/Bluetooth Module	X	X	X	X	X	X	X	X
MicroSD Class 10 Cards (various capacities)	X	X	X	X	X	X	X	X
MISCELLANEOUS								
Dimensions (W x H x D)	96.8 x 23.7 x 144.3mm or 3.8 x 0.9 x 5.7 in	159.9 x 22 x 144.2mm or 6.3 x 0.87 x 5.7 in	200 x 30 x 122mm or 7.9 x 1.2 x 4.8 in	179.9 x 21.9 x 204.2mm or 7.1 x 0.86 x 8 in				
Weight	5.6 oz	12 oz	22.9 oz	20 oz				
Power	5V / 2A via USB (10 Watts)	12V / 1.5A (18 Watts)	12V-19V DC nominal	12V / 3A (30 Watts)				
Multi-Country Power & Regulatory Approvals	X	X	X	X	X	X	X	X
Built-in Wall Mounting	X	X	X	X	X	X	X	X
Warranty, parts and labor	X	X	X	X	X	X	X	X