BRIGHTSIGN LS/HD/XD/XT COMPARISON TABLE

MODEL	LS423	HD223	HD1023	HO523	XD233	XD1033	XT243	XT1143
VIDEO ENGINE DECODER								
Single 1080p60 video decoding	X	X	X	X	X	X	X	X
Dual 1080@60p decoding					X	X	X	X
Native 4K@60p CEA HDR10 video decoding					X	X	X	X
Dual video decoding of one 4K & one 1080p60 video							X	X
MEDIA FORMATS								
Video Codecs for 4K content: H.265					X	X	X	X
Video Containers for 4K H.265 content: .ts, .mov, .mp4, .mkv					X	X	X	X
Video Codecs for Full HD: H.265, H.264 (MPEG-4, Part 10), MPEG-2, MPEG-1	X	X	X	X	X	X	X	X
Video Containers for Full HD content: .ts, .mpg, .vob, .mov, .mp4, .m2ts, .wmv	X	X	X	X	X	X	X	X
Images: BMP, JPEG, PNG	X	X	X	X	X	X	X	X
Audio: MP2, MP3, AAC, FLAC, OGG, and WAV (AC3 is passed through)	X	X	X	X	X	X	X	X
HTML5	X (Entry-level)		X (Mainstream)		X (Advanced)		X (Enterprise)	
DISPLAY RESOLUTIONS								
4K resolutions: 3840x2160, 4096x2160, 3840x600					X	X	X	X
Upscaling to: 3840x2160x24/25/29.97/30p					X	X	X	X
1920x1080, 1920x1080, 1600x1200, 1440x1050, 1440x900, 1360x768, 1280x1024, 1280x960, 1280x800, 1280x768, 1280x720, 1024x768, 800x600, 720x576, 720x480, 640x480	X	X	X	X	X	X	X	X
HARDWARE INTERFACES								
Locking Power Connector					X	X	X	X
External micro SD Slot (SDHC and SDXC); SDHC storage up to 32GB SDXC storage up to 2TB	X	X	X	X	X	X	X	X
M.2 SSD Interface					X	X	X	X
USB High Speed Host Port (also supports content updates)	X (Type C)		X (Type A)	X (2 Ports :Type A)		X (2 ports: Type A&C)		X (2 ports: Type A&C)
Phoenix GPIO Port (12-pin bi-directional terminal block)		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 -or- SPDIF digital, non-simultaneous)		X	X	X	X	X	X	X
Analog Stereo Audio (requires USB adapter cable)	X							
HDMI Out	X (1.4a)	X (1.4a)	X (1.4a)	X (1.4a via JAE)	X (2.0a)	X (2.0a)	X (2.0a)	X (2.0a)
HDM 2.0a Input								X
Ethernet	X (100baseT)				X (Gigabit)			
Power over Ethernet (PoE+)							X	X
M.2 (E) Keyed Wi-Fi/Bluetooth Connector	X	X	X	X	X	X	X	X
Wi-Fi External Antenna Connectors	X	X	X	X	X	X	X	X

MODEL	LS423	HD223	HD1023	HO523	XD233	XD1033	XT243	XT1143
Status LEDs	Power				Power, Error, Busy, Update			
Reset and Service Buttons	X	X	X	X	X	X	X	X
Real Time Clock	X	X	X	X	X	X	X	X
FEATURES								
H.265 Decoding	X	X	X	X	X	X	X	X
Powerful 4K Video Engine					X	X	X	X
Live TV								X
BrightBeacon™ (requires optional Wireless/Bluetooth module)	X	X	X	X	X	X	X	X
Autowall™	X	X	X	X	X	X	X	X
BrightWall™	X	X	X	X	X	X	X	X
Zones	X	X	X	X	X	X	X	X
Mosaic Mode		X	X	X	X	X	X	X
IP Streaming	X	X	X	X	X	X	X	X
IP Streaming Server		X	X	X	X	X	X	X
Encoding Server					X	X	X	X
Interactivity	X (USB, UDP)	X (GPIO, UDP)	X (GPIO, USB, serial, UDP)		X (GPIO, IR, UDP)	X (GPIO, dual USB, serial, IR, UDP)	X (GPIO, IR, UDP)	X (GPIO, dual USB, serial, IR, UDP)
Live Feeds	X	X	X	X	X	X	X	X
Tagging	X	X	X	X	X	X	X	X
BrightSign App	X	X	X	X	X	X	X	X
Geo-Fencing	X		X	X		X		X
Sign Preview	X	X	X	X	X	X	X	X
Remote Snapshot	X	X	X	X	X	X	X	X
BrightPlates™	X	X	X	X	X	X	X	X
Networking	X	X	X	X	X	X	X	X
B-deploy	X	X	X	X	X	X	X	X
Extended Thermal		X	X	X	X	X	X	X
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 (10 Watts)USB compatible power	12V / 1.5A (18 Watts)		12V-19V DC nominal	12V / 3A (36 Watts)			
Multi-Country Power & Regulatory Approvals	X	X	X	X	X	X	X	X

BrightSign®

BRIGHTSIGN HTML5 PERFORMANCE MATRIX

HTML5 content greatly increases your creative options when using BrightSign players. BrightSign's product lines target specific levels of applications and performance. Each product line provides increasing levels of both video and HTML5 performance to deliver the right solution for any application. HTML5 content can be implemented in many ways, from single, full-screen HTML content to multiple modular HTML assets playing within a BrightAuthor zone and alongside other multi-media content.

HTML5 FEATURE	BRIGHTSIGN LS3	BRIGHTSIGN HD3	BRIGHTSIGN XD3	BRIGHTSIGN XT3
HTML5 performance level	Entry-level	Mainstream	Advanced	Enterprise (most memory and fastest CPU)
HTML5 content	• Single zone static HTML	• Dual-zone static HTML ***OR,*** • Single-zone animated HTML	• Multi-zone animated HTML	• Multi-zone animated HTML
HTML5 hardware video playback (HWZ playing tag on)	• Single HD video decode in single HTML zone	• Single HD video decode in single HTML zone	• Dual HD video decode in dual HTML zones ***OR,*** • Single 4K video decode in single HTML zone	• Dual HD video decode in dual HTML zones ***OR,*** • Single 4K video decode in single HTML zone ***OR,*** • Single 4K & Single HD video decode in dual HTML zones
HTML5 layered with non-HTML video playback	• HTML + single HD video	• HTML + single HD video	• HTML + dual HD video ***OR,*** • HTML + single 4K video	• HTML + dual HD video ***OR,*** • HTML + single 4K + single HD
HTML5 Touch	Single touch	Single touch	Multi-touch: swipe/pinch/zoom	Multi-touch: swipe/pinch/zoom
HTML5 Smooth Ticker	Yes	Yes	Yes	Yes
3rd party HTML5 social media feeds (i.e. TINT, Postano, Tag-board, etc.)	No	Feed containing text and image posts	Feed containing text, image & video posts	Feed containing text, image & video posts
HTML5 Video Wall	HD video	HD video	HD or 4K video	HD or 4K video
BrightSign's JavaScript Objects (exclusive, easy to use controls for BrightSign players)	Yes	Yes	Yes	Yes