

SPECIFICATIONS

BrightSign®

MODEL	LS425	LS445	HD226	HD1026	XD236	XD1036	XT245	XT1145	XT2145
	AFFORDABLE PERFORMER		ENTRY-LEVEL 4K PLAYER WITH 10-BIT HDR SUPPORT		4K VIDEO - DEPLOYABLE ANYWHERE		THE PERFECT COMBO OF POWER AND PERFORMANCE		
	HD BASIC I/O	4K BASIC I/O	STANDARD I/O	EXPANDED I/O	STANDARD I/O	EXPANDED I/O	STANDARD I/O	EXPANDED I/O	MULTIPLEX I/O
AI ENABLEMENT									
Neural Processing Unit (NPU)	√	√	√	√	√	√	√	√	√
VIDEO & HTML5 ENGINE									
HTML5 Performance Level	Popular HTML widgets & graphic simple motion graphics		Modular 2D motion graphics	Interactive 2D motion graphics	Smooth full screen 2D WebGL motion	Responsive multi-touch 2D WebGL	3D WebGL & real time data visualization	Intense graphics, video and live TV	Dual HTML presentations driving 2 screens
8K video decoding							√ 10-bit at 60p	√ 10-bit at 60p	√ 10-bit at 60p
4K video decoding		√ 8-bit at 60p 10-bit at 30p	√ 10-bit at 60p		√ 10-bit at 60p		√ 10-bit at 60p	√ 10-bit at 60p	√ 10-bit at 60p
Dual 4K video decoding					√	√	√	√	√
Quad 4K video decode									
4K video rotation			√	√	√	√	√	√	√
HDR10, HLG & Rec.2020/BT.2020 support			√	√	√	√	√	√	√
Full HD at 60p video decoding	√	√	√	√	√	√	√	√	√
Dual HD at 60p video decode			√	√	√	√	√	√	√
HD video rotation			√ (Single)	√ (Single)	√ (Single)	√ (Single)	√	√	√
8K resolution images & graphics									
4K resolution images & graphics					√	√	√	√	√
HD images & graphics	√	√	√	√	√	√	√	√	√
Supports 4K IP streaming	√	√	√	√	√	√	√	√	√
MEDIA FORMATS									
8K video codecs: H.265							√	√	√
8K Video Containers: .ts, .mov, .mp4, .mkv							√	√	√
4K Video codes: H.265, H.264		√ H.265 at 60p & H.264 at 30p	√ H.265 at 60p & H.264 at 60p	√ H.265 at 60p & H.264 at 60p	√ H.265 at 60p & H.264 at 60p	√ H.265 at 60p & H.264 at 60p	√	√	√
4K Video Containers: .ts, .mov, .mp4, .mkv		√	√	√	√	√	√	√	√
Full HD Video Codecs: H.265, H.264 (MPEG-4, Part 10), MPEG-2	√	√	√	√	√	√	√	√	√
Full HD Video Containers: .ts, .mpg, .vob, .mov, .mp4, .m2ts	√	√	√	√	√	√	√	√	√
8K Video Resolutions: 7680x4320x23.97/24/25/29.97/30/50/59.94/60p							√	√	√

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MEDIA FORMATS CONT.									
4K Video Resolutions: 4096x2160x23.97/24/25/29.97/30/50/59.94/60p 3840x2160x23.97/24/25/29.97/30/50/59.94/60p		√	√	√	√	√	√	√	√
Full HD Resolutions: 1920x1080x23.97/24/25/29.97/30/50/59.94/60p	√	√	√	√	√	√	√	√	√
Supports additional & customizable resolutions: includes unique, non-standard aspect ratios at various frame rates	√	√	√	√	√	√	√	√	√
Images: BMP, JPEG, PNG	HD	HD	HD	HD	HD/4K	HD/4K	HD/4K	HD/4K	HD/4K
Audio: MP2, MP3, AAC and WAV (AC3 is passed through)	√	√	√	√	√	√	√	√	√
HTML Support: HTML5, CSS, JavaScript, SVG, WebGL and Chromium compatible	√	√	√	√	√	√	√	√	√ X
HARDWARE INTERFACES									
Intel Processor									
HDMI Outputs	1	1	1	1	1	1	1	1	2
HDMI 1 Output:	√ HDMI 2.0a	√ HDMI 2.0a	√ HDMI 2.0a	√ HDMI 2.0a	√ HDMI 2.0a	√ HDMI 2.0a	√ HDMI 2.1a	√ HDMI 2.1a	√ HDMI 2.1a
HDMI 2 Output:									√ HDMI 2.0a
HDMI 3 Output:									
HDMI 4 Output:									
HDMI Input: (HDCP support coming soon in a future BrightSignOS update)								√ HDMI 2.0a	√ HDMI 2.0a
Ethernet:	√ 10/100	√ 10/100	√ Gigabit	√ Gigabit	√ Gigabit with POE+	√ Gigabit with POE+	√ Gigabit with POE+	√ Gigabit with POE+	√ Gigabit with POE+
USB-A: provides 5V/1A power to peripheral devices				√		√		√	√
USB-C: supports high-speed host mode & provides 5V/1A power to peripheral devices	√	√				√		√	√
GPIO: 12-pin Phoenix Connector with 8 bi-directional Ports			√	√	√	√	√	√	√
IR: 3.5mm In / Out			√	√	√	√	√	√	√
Serial: 3.5mm RS-232				√		√		√	√
Audio: 3.5mm Output (Analog or SPDIF)	√	√	√	√	√	√	√	√	√
Primary storage: External microSD card slot	√	√	√	√	√	√	√	√	√
Optional storage: M.2 PCIe Interface for NVME SSD Storage			√	√	√	√	√	√	√
M.2 E Key for WiFi/Bluetooth module	√	√	√	√	√	√	√	√	√
Status LEDs	1	1	4	4	4	4	4	4	4
Reset & Service Buttons	√	√	√	√	√	√	√	√	√

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HARDWARE INTERFACES CONT.									
Locking Power Connector	✓	✓	✓	✓	✓	✓	✓	✓	✓
Real Time Clock with 14-day life	✓	✓	✓	✓	✓	✓	✓	✓	✓
ACCESSORIES									
BP200 & BP900 USB Button Pads	✓	✓		✓		✓		✓	✓
Micro SD Class 10 cards (various capacities)	✓	✓	✓	✓	✓	✓	✓	✓	✓
256GB PCIE NVME M.2 SSD					✓	✓	✓	✓	✓
BrightSign Mobile USB modem	✓	✓		✓		✓		✓	✓
CBL-USBC to USB A and 3.5mm Serial	✓	✓				✓		✓	✓
GP800-C: USB C to GPIO 12-pin Cable Kit	✓	✓				✓		✓	✓
CBL-IR RCVR USBC LS Series: USB-C to IR receiver cable	✓	✓							
SOFTWARE & SERVICES									
BrightSignOS™	✓	✓	✓	✓	✓	✓	✓	✓	✓
Free BrightSign Author software	✓	✓	✓	✓	✓	✓	✓	✓	✓
Free BrightSign Control Subscription	✓	✓	✓	✓	✓	✓	✓	✓	✓
Optional BrightSign Author Plus Paid Subscription	✓	✓	✓	✓	✓	✓	✓	✓	✓
Optional BrightSign Control Plus Paid Subscription	✓	✓	✓	✓	✓	✓	✓	✓	✓
Optional BrightSign Mobile Service	✓	✓	✓	✓		✓		✓	✓
MISCELLANEOUS									
Anodized aluminum enclosure for extended operating temperatures			✓	✓	✓	✓	✓	✓	✓
Dimensions	126.6 x 141.84 x 19.41 mm (WxDxH)		205 x 185.9 x 19.2 mm (WxDxH)		205 x 185.9 x 19.2 mm (WxDxH)		238.62 x 185.90 x 19.19 (WxDxH)		
Shipping Weight	TBD	TBD	1.3 kg	1.3 kg	1.3 kg	1.3 kg	TBD	TBD	TBD
Player Weight	0.18 kg	0.18 kg	0.59 kg	0.59 kg	0.59 kg	0.59 kg	0.68 kg	0.68 kg	0.68 kg
Power Supply	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A
Multi-Country Power & Regulatory Approvals	✓	✓	✓	✓	✓	✓	✓	✓	✓
Built-in Wall Mounting Brackets	✓	✓	✓	✓	✓	✓	✓	✓	✓