

SPECIFICATIONS

BrightSign®

MODEL	LS425	LS445	HD226	HD1026	XD236	XD1036	XT245	XT1145	XT2145	XC2055	XC4055
	AFFORDABLE PERFORMER		ENTRY-LEVEL 4K PLAYER WITH 10-BIT HDR SUPPORT		4K VIDEO - DEPLOYABLE ANYWHERE		THE PERFECT COMBO OF POWER AND PERFORMANCE			THE MOST POWERFUL PLAYER IN SIGNAGE	
	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	MULTIPLEX 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	Up to 8K 3D WebGL across 2 screens	2x the power of XC2055 across 4 screens
8K video decoding							√ 10-bit at 60p	√ 10-bit at 60p	√ 10-bit at 60p	√ 8-bit at 60p 10-bit at 30p	√ 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	√ 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	HD/4K/8K	HD/4K/8K
Audio: MP2, MP3, AAC and WAV (AC3 is passed through)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HTML Support: HTML5, CSS, JavaScript, SVG, WebGL and Chromium compatible	✓	✓	✓	✓	✓	✓	✓	✓	✓ X	✓ OpenGL	✓ OpenGL
HARDWARE INTERFACES											
Intel Processor										✓ Intel Gen 11 Celeron with 8GB RAM	✓ Intel Gen 11 i5 with 8GB RAM
HDMI Outputs	1	1	1	1	1	1	1	1	2	2	4
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 2.1a	✓ HDMI 2.1a
HDMI 2 Output:									✓ HDMI 2.0a	✓ HDMI 2.0a	✓ HDMI 2.0a
HDMI 3 Output:											✓ HDMI 2.0a
HDMI 4 Output:											✓ HDMI 2.0a
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+	✓ Gigabit	✓ Gigabit
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	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™	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows 11 IoT or Windows 10 IoT										✓ Windows 10 LTSC 2019 Windows 10 LTSC 2021	✓ Windows 10 LTSC 2019 Windows 10 LTSC 2021
Free brightAuthor connected or brightAuthor software	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Free bsn.Control Subscription	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Optional bsn.Content 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)			253.2 x 232.12 x 48mm (WxDxH)	
Shipping Weight	TBD	TBD	1.3 kg	1.3 kg	1.3 kg	1.3 kg	TBD	TBD	TBD	3 kg	3 kg
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	1.41 kg	1.41 kg
Power Supply	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	12V / 3A	19V / 4.7A	19V / 4.7A
Multi-Country Power & Regulatory Approvals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Built-in Wall Mounting Brackets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSRP	\$300	\$400	\$500	\$600	\$600	\$700	\$800	\$900	\$1100	\$1100 with BrightSignOS \$1300 with Windows & 256GB internal SSD	\$1600 with BrightSignOS \$1800 with Windows & 256GB internal SSD