SPECIFICATIONS

BrightSign®

MODEL	LS425	LS445	HD225	HD1025	XD235	XD1035	XT245	XT1145	XT2145	XC2055	XC4055
	AFFORDABLE PERFORMER		BUILT FOR INTERACTIVITY		OPTIMIZED FOR MOTION GRAPHICS		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)	X	X					X	X	X		
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							X 10-bit at 60p	X 10-bit at 60p	X 10-bit at 60p	X 8-bit at 60p 10-bit at 30p	X 10-bit at 60p
4K video decoding		X 8-bit at 60p 10-bit at 30p	X 8-bit at 60p 10-bit at 30p		X 8-bit at 60p 10-bit at 30p		X 10-bit at 60p	X 10-bit at 60p	X 10-bit at 60p	X 10-bit at 60p	X 10-bit at 60p
Dual 4K video decoding							X	X	X	X	X
Quad 4K video decode											X
4K video rotation							X	X	X	X	X
HDR10, HLG & Rec.2020/BT.2020 support							X	X	X	X	X
Full HD at 60p video decoding	X	X	X	X	X	X	X	X	X	X	X
Dual HD at 60p video decode			X	X	X	X	X	X	X	X	X
HD video rotation			X (Single)	X (Single)	X (Single)	X (Single)	X	X	X	X	X
8K resolution images & graphics										X	X
4K resolution images & graphics							X	X	X	X	X
HD images & graphics	X	X	X	X	X	X	X	X	X	X	X
Supports 4K IP streaming	X	X	X	X	X	X	X	X	X	X	X
MEDIA FORMATS											
8K video codecs: H.265							X	X	X	X	X
8K Video Containers: .ts, .mov, .mp4, .mkv							X	X	X	X	X
4K Video codes: H.265, H.264		X H.265 at 60p & H.264 at 30p	X H.265 at 60p & H.264 at 30p	X H.265 at 60p & H.264 at 30p	X H.265 at 60p & H.264 at 30p	X H.265 at 60p & H.264 at 30p	X	X	X	X	X
4K Video Containers: .ts, .mov, .mp4, .mkv		X	X	X	X	X	X	X	X	X	X
Full HD Video Codecs: H.265, H.264 (MPEG-4, Part 10), MPEG-2	X	X	X	X	X	X	X	X	X	X	X
Full HD Video Containers: .ts, .mpg, .vob, .mov, .mp4, .m2ts	X	X	X	X	X	X	X	X	X	X	X
8K Video Resolutions: 7680x4320x23.97/24/25/29.97/30/50/59.94/60p							X	X	X	X	X
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		X	X	X	X	X	X	X	X	X	X

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MEDIA FORMATS CONT.											
Full HD Resolutions: 1920x1080x23.97/24/25/29.97/30/50/59.94/60p	X	X	X	X	X	X	X	X	X	X	X
Supports additional & customizable resolutions: includes unique, non-standard aspect ratios at various frame rates	X	X	X	X	X	X	X	X	X	X	X
Images: BMP, JPEG, PNG	HD	HD	HD	HD	HD	HD	HD/4K	HD/4K	HD/4K	HD/4K/8K	HD/4K/8K
Audio: MP2, MP3, AAC and WAV (AC3 is passed through)	X	X	X	X	X	X	X	X	X	X	X
HTML Support: HTML5, CSS, JavaScript, SVG, WebGL and Chromium compatible	X	X	X	X	X	X	X	X	X	X OpenGL	X OpenGL
HARDWARE INTERFACES											
Intel Processor										X Intel Gen 11 Celeron with 8GB RAM	X Intel Gen 11 i5 with 8GB RAM
HDMI Outputs	1	1	1	1	1	1	1	1	2	2	4
HDMI 1 Output:	X HDMI 2.0a	X HDMI 2.0a	X HDMI 2.0a	X HDMI 2.0a	X HDMI 2.0a	X HDMI 2.0a	X HDMI 2.1a	X HDMI 2.1a	X HDMI 2.1a	X HDMI 2.1a	X HDMI 2.1a
HDMI 2 Output:									X HDMI 2.0a	X HDMI 2.0a	X HDMI 2.0a
HDMI 3 Output:											X HDMI 2.0a
HDMI 4 Output:											X HDMI 2.0a
HDMI Input: (HDCP support coming soon in a future BrightSignOS update)								X HDMI 2.0a	X HDMI 2.0a		
Ethernet:	X 10/100	X 10/100	X Gigabit	X Gigabit	X Gigabit with POE+	X Gigabit with POE+	X Gigabit with POE+	X Gigabit with POE+	X Gigabit with POE+	X Gigabit	X Gigabit
USB-A: provides 5V/1A power to peripheral devices				X		X		X	X	X	X
USB-C: supports high-speed host mode & provides 5V/1A power to peripheral devices	X	X				X		X	X	X	X
GPIO: 12-pin Phoenix Connector with 8 bi-directional Ports			X	X	X	X	X	X	X	X	X
IR: 3.5mm In / Out			X	X	X	X	X	X	X	X	X
Serial: 3.5mm RS-232				X		X		X	X	X	X
Audio: 3.5mm Output (Analog or SPDIF)	X	X	X	X	X	X	X	X	X	X	X
Primary storage: External microSD card slot	X	X	X	X	X	X	X	X	X	X	X
Optional storage: M.2 PCIe Interface for NVME SSD Storage					X	X	X	X	X	X	X
Optional M.2 E Key for WiFi/Bluetooth module	X	X	X	X	X	X	X	X	X	X	X
Status LEDs	1	1	4	4	4	4	4	4	4	4	4
Reset & Service Buttons	X	X	X	X	X	X	X	X	X	X	X
Locking Power Connector	X	X	X	X	X	X	X	X	X	X	X
Real Time Clock with 14-day life	X	X	X	X	X	X	X	X	X	X	X

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ACCESSORIES											
BP200 & BP900 USB Button Pads	X	X		X		X		X	X	X	X
Micro SD Class 10 cards (various capacities)	X	X	X	X	X	X	X	X	X	X	X
256GB PCIE NVME M.2 SSD					X	X	X	X	X	X	X
M.2 E Key for WiFi/Bluetooth module	X	X	X	X	X	X	X	X	X	X	X
BrightSign Mobile USB modem	X	X		X		X		X	X	X	X
CBL-USBC to USBA and 3.5mm Serial	X	X				X		X	X	X	X
GP800-C: USB C to GPIO 12-pin Cable Kit	X	X				X		X	X	X	X
CBL-IR RCVR USBC LS Series: USB-C to IR receiver cable	X	X									
SOFTWARE & SERVICES											
BrightSignOS™	X	X	X	X	X	X	X	X	X	X	X
Windows 11 IoT or Windows 10 IoT										X Windows 10 LTSC 2019 Windows 10 LTSC 2021	X Windows 10 LTSC 2019 Windows 10 LTSC 2021
Free brightAuthor connected or brightAuthor software	X	X	X	X	X	X	X	X	X	X	X
Free bsn.Control Subscription	X	X	X	X	X	X	X	X	X	X	X
Optional bsn.Content Paid Subscription	X	X	X	X	X	X	X	X	X	X	X
Optional BrightSign Mobile Service	X	X		X		X		X	X	X	X
MISCELLANEOUS											
Anodized aluminum enclosure for extended operating temperatures			X	X	X	X	X	X	X		
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	X	X	X	X	X	X	X	X	X	X	X
Built-in Wall Mounting Brackets	X	X	X	X	X	X	X	X	X	X	X
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