

SignageCMS

Interactive Digital Signage Solution
Intuitive & flexible content manager



Feature

- Provide cloud service and Edge server options
- Edit program to anywhere in anytime
- Remotely manage the players
- Dispatch program by one click to every players
- Schedule the playing time according to the minute, hour, day, month, year
- Support diverse interactions, screen touch, sensors, mobile device
- Provide Interactive APIs for application integration
- Detailed proof-of-play statistic report

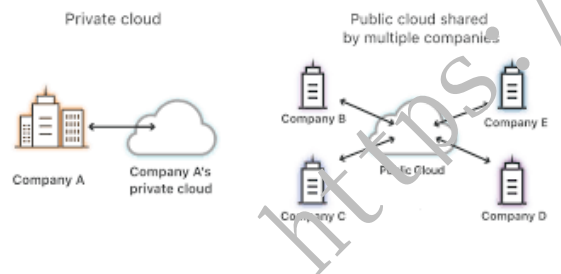
Introduction

SignageCMS is an intuitive and flexible solution for integrated information content design and display management. This solution is designed to optimize content distribution by providing a cost-effective solution for media broadcasting management. It enables users to schedule content remotely from any place, any time- then dispatches it to multiple client devices simultaneously.

Key Functions

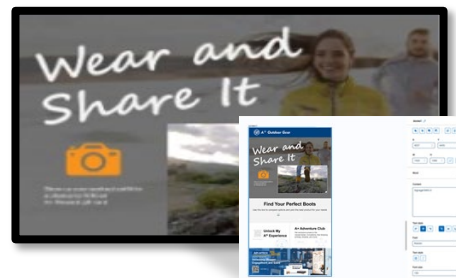
Cloud Service & Edge Server Options

SignageCMS support both public cloud and private server options, which can fulfill all kinds of system requirement. Cloud service is suitable for large-scale deployments. Edge servers are ideal for meeting your network security management needs.



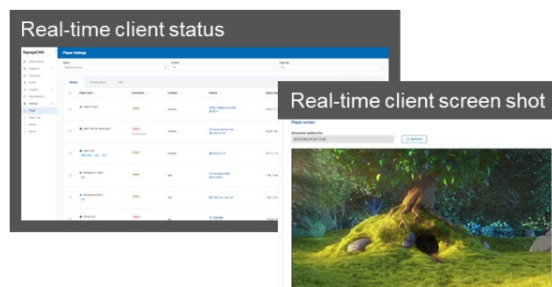
User Friendly Interface

Intuitive drag and drop for program layout edit with dynamic preview. Flexible scheduling in a calendar view for switching the program schedule quickly. Moreover, the user-defined client groups in cities & regions/areas made the dispatch easy and rapid.



Seamless Remote Management

Signage features an intuitive dashboard that enables real-time remote management of all client devices from a single platform in 24/7 support. The platform also provide the over-the-air function to update client software effortless.



APIs for Interactive & Integration

SignageCMS provides comprehensive APIs combined with various sensors such as IPcam, Webcam, RFID, Barcode etc. Users can easily make an interactive program to enhance customer engagement efficiently.



Software Specifications

SignageCMS Server

Media Management	File Upload	Supports single select and multi-select to upload files
	File Grouping	User-defined groups
	File Preview	Thumbnail preview and list view Displays media type, size, resolution, and upload time
	Media Format	JPEG/BMP/GIF/PNG, MPEG 1/2/4, AVI, VP8, MOV, WMV, FLV, MP3, MS-PowerPoint, PDF, Chrome, HTML, marquee
Program Management	Directory Tree Display	Based on a directory tree, easy to add, move, and delete programs
	Thumbnail Preview	Easy to find the right program for the next action
	Displays Configuration	Displays' numbers, layouts and resolution setup. (supports landscape & portrait)
	Friendly Interface	What you see is what you get, real-time content thumbnail preview
	Drag and Drop	Easy to reposition or resize by mouse.
	Playlist	Setup the content list, and replay automatically
	Background Color, Image, Music Setup	Can be customized based on preferences
	Rich Media Widget Support	Includes images, audio, video, text, files, HTML, YouTube, RTSP and more
Schedule Management	Schedule by Calendar	Based on daily schedule, setup calendar for different schedules on specific dates
	Repeating Schedule	Freely schedule repeating content based on days of the week, weekdays, and holidays
	Schedule Management	Create, Copy, Delete, or Export
	Appointment Dispatch	Schedule the dispatch or activation time and date
Dispatch Management	Bulk Dispatch	Unlimited
	Client Group Setting	Group clients for more efficient management
	Instant Schedule	Real-time dispatch for urgent messages
Remote Client Management	Remote Screen On/Off	Schedule specific times for screens to automatically turn on or off.
	Remote Software Update	Initiate version updates remotely for all clients
	Client Status Monitoring	Includes heartbeat, system and performance information
	Real-Time Screenshot Monitoring	Get the client's real-time screenshot and refresh automatically
System Management	Authorization Settings	Users can be setup with different permissions or groupings or different functions
	Simultaneous Editing	System accepts multiple users operating at the same time
	System Backup/ Recovery	Backup/restore the server system with one click
	Resume Download	In case the network is unstable or the client goes offline
	User Notification	Monitor device offline status, delivery progress, and review requests, and notify users via email.

SignageCMS Client

Content	Audio and Video Output	SD, HD, Full HD, 4K (*depends on device performance)
Playback Engine	Display Control	Portrait, Landscape
	Multi-Screen Display	Unlimited
	Remote Software Update	Update to the latest from the server
	Client Status Report	Heartbeat, System and Performance information report
	Rich Media Format Support	Images: JPG, PNG, GIF, BMP, GIF Video: MP4, AVI, VP8, WMV, MOV, MPG, MKV (*depends on the codec) Text: Text, Scrolling Text, Bulletin, Time Audio: MP3, WMA, WAV File: PPT*, PPS*, PDF, SWF (Flash) Text: Interfacing TXT, EXCEL, RSS (1.0) Others: Web URL, HTML, YouTube, RTSP *3rd-party plug-in is required for playback

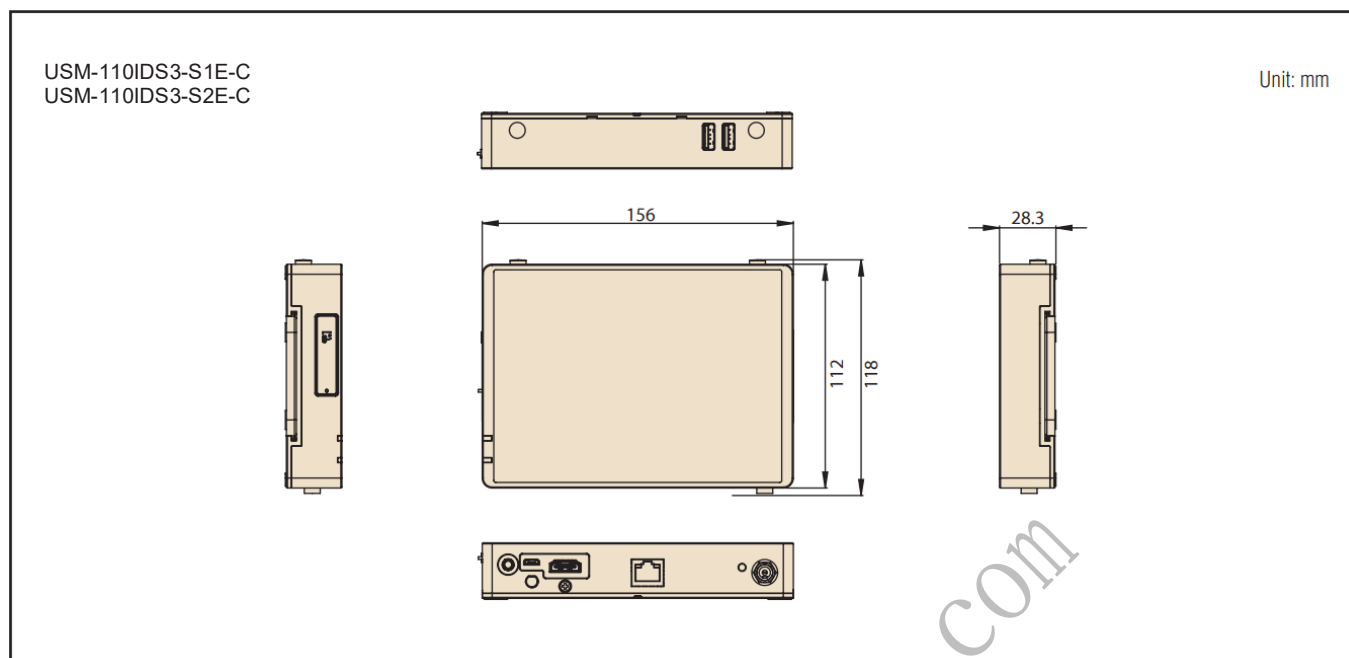
Hardware Specifications

		USM-110DSNC1-S1E-C USM-110DSNC1-S2E-C	DS-410DSNC-G1E-C DS-410DSNC-G2E-C	DS-450DSNC-G1E-C	DS-082UDS1-S4E-C
Processor System	CPU/ System Chipset	RK3566, Arm® Cortex-A55 quad-core processor (1.8GHz)	Intel Elkhart Lake, 4 Cores J6412, 2.0 Ghz	Intel Elkhart Lake, 4 Cores J6412, 2.0 Ghz	AMD V1605B/ R1606G Integrated in SOC
Memory	Technology	-	LPDDR4 3733Mhz	LPDDR4 3733Mhz	DDR4 2400MHz
	Max. Capacity	2 GB onboard memory	8 GB onboard memory	8 GB onboard memory	8GB (16GB per SO-DIMM, 2 x 260-pin SODIMM)
Graphic & Display Tech.	Output	HDMI x 1	1 x HDMI 2.0 (4K) (CEC BOM option) 1 x VGA	1 x HDMI 2.0 (4K@60Hz) 1 x HDMI 1.4 (4K@30Hz)	HDMI 2.0 x 4 (V1605B) HDMI 2.0 x 3 (R1606G)
	Resolution	1920 x1080 @ 60 Hz	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz
	GPU & Graphic Engine	Mali-G52 1-Core-2EE, OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0 Full Profile	Intel UHD graphics	Intel UHD graphics	AMD Radeon HD graphics
	Video Format	Decoder: f H.265 HEVC/MVC Main10 Profile yuv420@L5.1 f H.264 AVC/MVC Main10 Profile yuv400/yuv420/yuv422 f H.263 Profile0, levels 10-70, up to 720x576@60fps f VP8, VC1, MPEG-4, MPEG-2, MPEG-1 Encoder: f H.264/AVC BP/MP/HP f H.265/HEVC MP f Support YUV/RGB video source with rotation and mirror	-	-	-
Storage	SATA / M.2	-	2242 M Key (SATA)	2242 M Key (SATA)	2242 M Key
	Flash/ Extension	16 GB of onboard eMMC	-	-	-
Ethernet	Interface	-	Gigabit LAN Controller	Gigabit LAN Controller	Gigabit LAN Controller
	Controller	-	Realtek RTL8119I	Realtek RTL8111G	Realtek RTL8111G
I/O Interface	LAN	1 x 10/100/1000 Mbps	2 x RJ-45	2 x RJ-45	1 x RJ45
	USB	USB 2.0*2 OTG USB*1	2 x USB 3.0	USB 2.0*4 USB 3.0*2	USB 2.0*2 USB 3.0*2
	Audio	1	via HDMI	via HDMI	1 (SPDIF/Line-out/ Mic-in), supports Jack Sense
	LED Indicators	1 x Power, 1 x Wireless Network	1 x Power, 1 x HDD Access	1 x Power, 1 x HDD Access	1 x Power, 1 x HDD Access
	Serial	N/A	2 x RS232 (in RJ11 Conn.)	2x RS-232	1 x RS-232
Expansion	M.2	-	-	2230 E Key	1 x 2230 E Key for wireless module 2242 M Key for SATA storage
	Micro SD Card Slot / 4-pin Wafer2.0 / Mini PCIe	1/1 (for Wi-Fi module option)/N/A	-	-	-
Power Requirement	Power Consumption	Typical 15W, Max. 25W	-	-	-
	Input Voltage	12V/3A, 36W Power Adapter	19 V DC-in (ATX/AT mode)	19 V DC-in (ATX/AT mode)	19 V DC-in (ATX/AT mode)
Physical Characteristics	Mounting	VESA (75 x 75), wall, desktop, pole, magnet, DIN rail	Wall Mount (Optional); Din Rail (Optional)	Wall Mount	VESA/Desktop/Wall/DIN-rail
	Dimensions (W x H x D)	156 x 112 x 28 mm (6.14 x 4.41 x 1.10 in)	124 x 116 x 26 mm	160 x 115 x 44 mm	180 x 190 x 19 mm
	Weight	0.43 kg (0.94 lb)	0.41 kg	0.7 kg	0.87 kg (1.92 lb)
Environment	Operating Temperature	0 ~ 40° C (32 ~ 104° F)	0~40°C (with air flow); 0~35°C (without air flow)	0 ~ 45 °C (with 0.7m/s air flow)	0 ~ 40° C (32 ~ 104F) with 0.7 m/s airflow
	Relative Humidity	90% @ 40° C (non-condensing)	95% @ 40° C (non-condensing), operating	95% @ 40° C (non-condensing), operating	95% @ 40° C (non-condensing), operating
Software Development Kit	Operating System	Android 11.0	Win10/11 IoT x64	Win10 IoT x64	Win10 IoT x64
	Signage Software	SignageCMS Android Client Pro	SignageCMS Windows Pro Client	SignageCMS Windows Pro Client	SignageCMS Windows Pro Client
Certification	EMC	CE/FCC/UL/CB/BSMI/RED	CE/FCC Class B, BSMI, UKCA, CE-RED	CE/FCC Class B, BSMI, UKCA	CE,FCC Class B,CCC,BSMI
	Safety		UL, CB, BSMI	UL, CB, BSMI	UL,CB,CCC,BSMI (No RED certification)

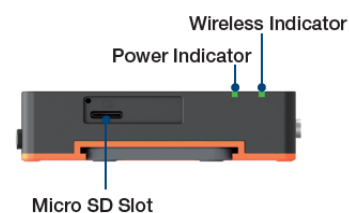
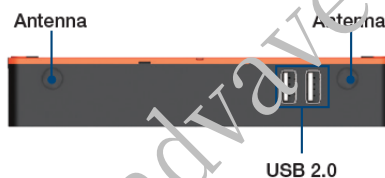
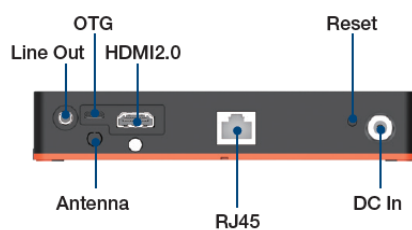
Hardware Specifications

		UBX-110DSNC-G1E-C	UBX-110HDSS-G1E-C(Server)
Processor System	CPU/ System Chipset	Celeron 6305E	Core-i5, 1145G7E
Memory	Technology	DDR4-3200 SODIMM *1	DDR4-3200 SODIMM *1
	Max. Capacity	8GB	16GB
Graphic & Display Tech.	Output	USB-C *1 HDMI2.0b *2	USB-C *1 HDMI2.0b *2
	Resolution	USB-C: support up to 8K UHD (7680 x 4320 @ 60Hz); HDMI 1 and 2: support up to 4K UHD (4096 x 2160@60Hz)	USB-C: support up to 8K UHD (7680 x 4320 @ 60Hz); HDMI 1 and 2: support up to 4K UHD (4096 x 2160@60Hz)
	GPU & Graphic Engine	Intel UHD graphics	Intel UHD graphics
	Video Format	-	-
		-	-
Storage	SATA / M.2	MF SJ121 M.2 2280 128G WD 3D TLC (0~70°)	*2242 m Key (SATA)
	Flash/ Extension	-	-
Ethernet	Interface	-	-
	Controller	-	-
I/O Interface	LAN	RJ45 *2 (LAN1- i219: 10/100/1000 Mbps; LAN 2 - i225: up to 2.5 Gbps)	RJ45 *2 (LAN1- i219: 10/100/1000 Mbps; LAN 2 - i225: up to 2.5 Gbps)
	USB	USB 3.2 Gen2 Type A(Blue) *2 USB-C(Supports DP 1.4, 8K@60Hz video output, 5V/2A, USB 3.2 Gen2 data transfer) *1	USB 3.2 Gen2 Type A(Blue) *2 USB-C(Supports DP 1.4, 8K@60Hz video output, 5V/2A, USB 3.2 Gen2 data transfer) *1
	Audio	Line-out *1	Line-out *1
	LED Indicators	HDD Access (Green) *1	HDD Access (Green) *1
	Serial	DB9 *1 (RS232/485/RS422 by BIOS)	DB9 *1 (RS232/485/RS422 by BIOS)
Expansion	M.2	-	-
	Micro SD Card Slot / 4-pin Wafer2.0 / Mini PCIe	-	-
		-	-
Power Requirement	Power Consumption	-	-
	Input Voltage	12V/3A (60W Power Adapter)	12V/3A (60W Power Adapter)
Physical Characteristics	Mounting	100 x 100 mm VESA Mounting Kit	100 x 100 mm VESA Mounting Kit
	Dimensions (W x H x D)	182.5 x 141.5 x 35 mm	182.5 x 141.5 x 35 mm
	Weight	1.57 kg	1.57 kg
Environment	Operating Temperature	0~45 °C	0~ 45 °C
	Relative Humidity	-	-
Software Development Kit	Operating System	Windows 10 IoT LTSC 2021	Windows 10 IoT LTSC 2021
	Signage Software	SignageCMS Windows Pro Client	SignageCMS Windows Pro Client
Certification	EMC	CE, FCC, CCC, BSMI, UKCA, RF RED	CE, FCC, CCC, BSMI, UKCA, RF RED
	Safety	UL, CB, CCC, BSMI, BIS	UL, CB, CCC, BSMI, BIS

Dimension Specifications



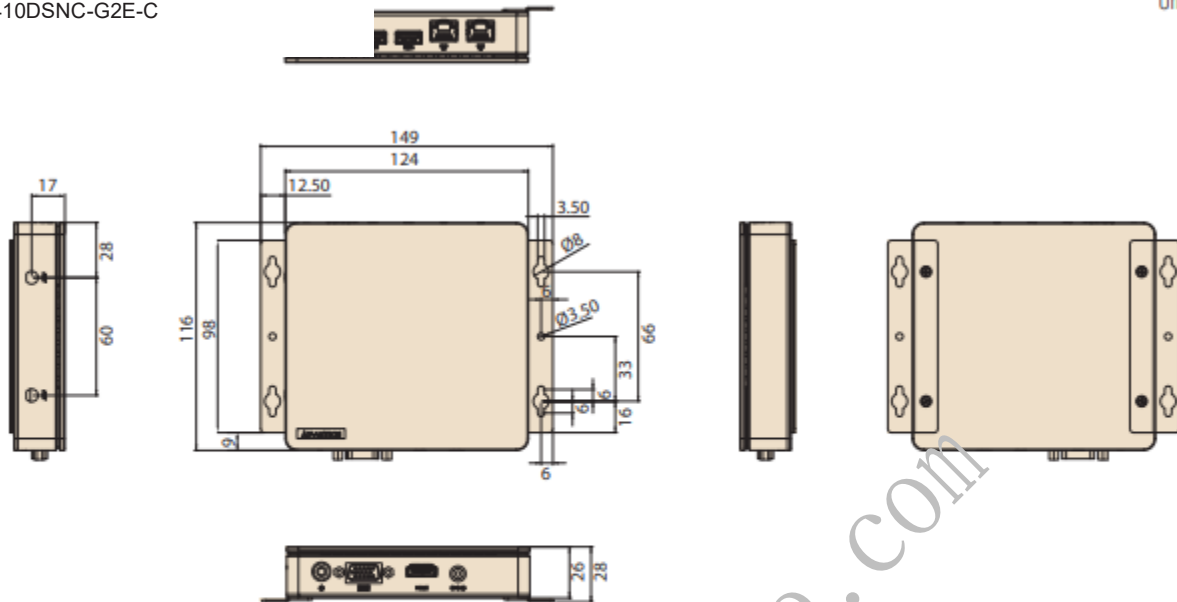
USM-110UDS3-S1E / USM-110UDS3-S2E



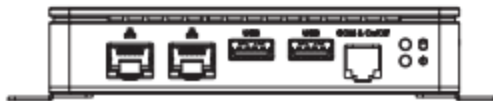
Dimension Specifications

DS-410DSNC-G1E-C
DS-410DSNC-G2E-C

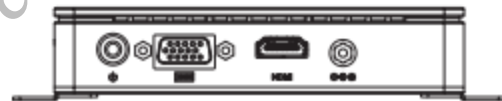
Unit: mm



Front View



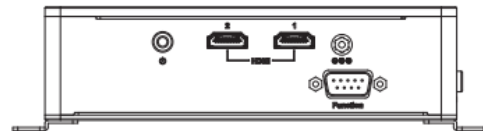
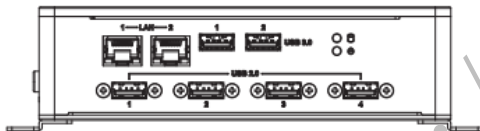
Rear View



Unit: mm

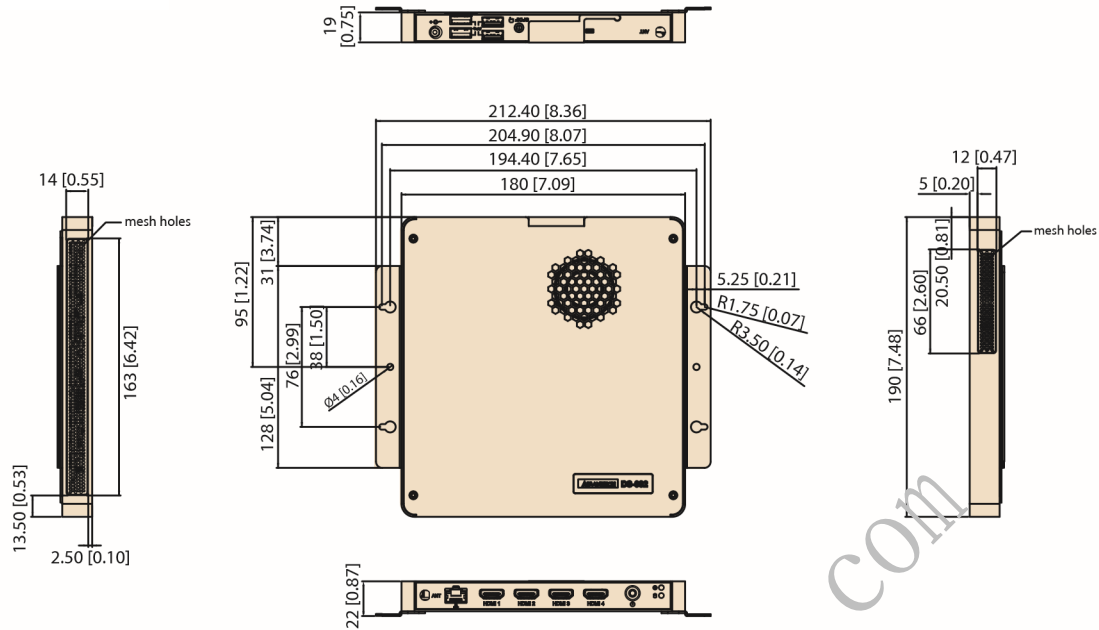
[illegible]

Rear View



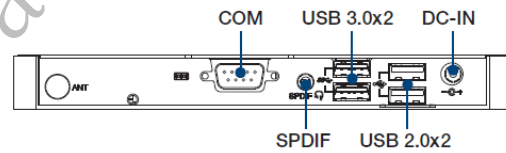
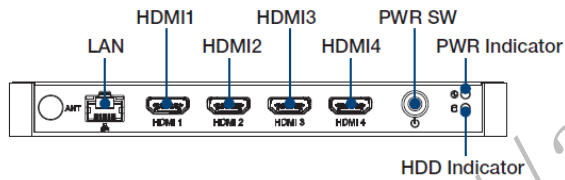
DS-082UDS1-S4E-C

Unit: mm [inch]



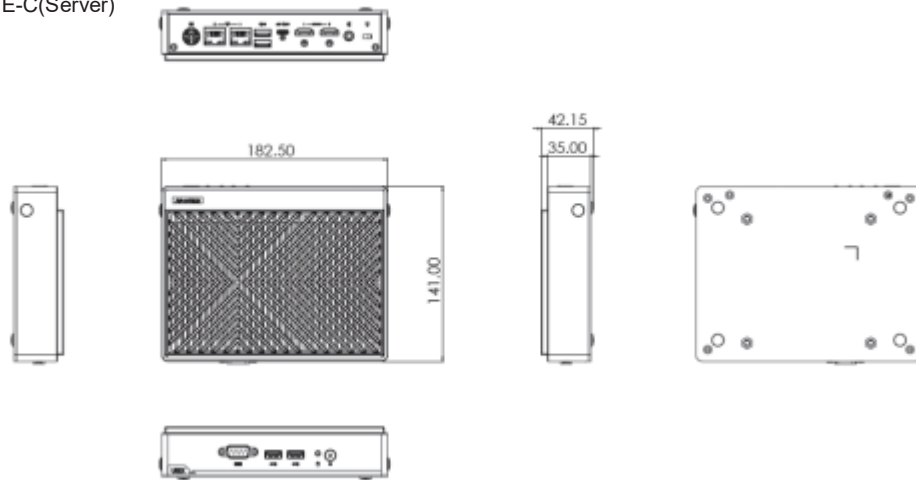
Front View

Rear View



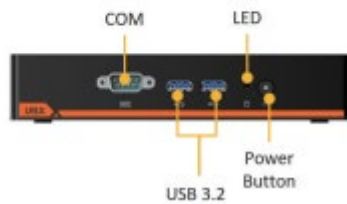
UBX-110DSNC-G1E-C
UBX-110HDSS-G1E-C(Server)

Unit: mm



I/O Interface

Front View



Rear View



Ordering Information

SignageCMS Server Software Ordering Information

P/N	Description	SW
36ASDSC3SWST01	SignageCMS Windows Server Std License/300 clients connection	SignageCMS Private Edge Server Standard Supports maximum 300 client connections
36ASDSC3SWPR01	SignageCMS Windows Server Pro License/300 clients connection	SignageCMS Private Edge Server Pro Expand interaction, develop service innovation and enhance the customer experience. Supports maximum 300 client connections
36ASDSC3SWSTE1	SignageCMS Windows Server Std License/1000 clients connection	SignageCMS Private Edge Server Standard Supports maximum 1000 client connections
36ASDSC3SWPRE1	SignageCMS Windows Server Pro License/1000 clients connection	SignageCMS Private Edge Server Pro Expand interaction, develop service innovation and enhance the customer experience. Supports maximum 1000 client connections
36CSDSC3PCAN01	One signage player/ Annual	SignageCMS Cloud Service One signage player/ Annual
36CSDSC3PCAM01	One subscription account/ Monthly	SignageCMS 50 GB Storage One subscription account/ Monthly
36CSDSC3PCAA01	One subscription account/ Annual	SignageCMS 50 GB Storage One subscription account/ Monthly

Private Edge Server System Minimum Requirement

- OS: Windows 10, Windows Server 2019 (does not support Windows Server Datacenter)
- CPU: Intel® Core™ i5 or above
- RAM: 16GB or more
- Hard Disk: 500GB or more (depends on media file size)
- Port: 8000 (default), 1883 (MQTT), 5432(PostgreSQL)
- IP Address: Static IP Address is required

* PostgreSQL is required for server installation.

SignageCMS Client Ordering Information

SignageCMS Client Players

P/N	Description	RAM	Storage	OS	SW
USM-110IDS3-S1E-C	Cortex A55/2G/16G/Android11/SignageClient Display Outputs: 1 x HDMI	2 GB	16 GB Flash	Android11	SignageCMS Client Pro
USM-110IDS3-S2E-C	Cortex A55,2G/16G,Android11,Wi-Fi,SignageClient Display Outputs: 1 x HDMI	2 GB	16 GB Flash	Android11	SignageCMS Client Pro
DS-410DSNC-G1E-C	DS-410/J6412/8G/64G/Win10/SignageCMSC	8 GB	64 GB SSD	Win10 IoT	SignageCMS Client Pro
DS-410DSNC-G2E-C	DS-410/J6412/8G/64G/Win11/SignageCMS/Cov	8 GB	64 GB SSD	Win11 IoT	SignageCMS Client Pro
DS-450DSNC-G1E-C	DS-450/J6412/8G/128G/Win10/SignageCMSC	8 GB	128 GB SSD	Win10 IoT	SignageCMS Client Pro
DS-082DSNC4-S1E-C	V1605B,8G/64G,Win10,4Dis,SignageClient	8 GB	128 GB SSD	Win10 IoT	SignageCMS Client Pro
UBX-110DSNC-G1E-C	6305E/8G/128G/Win10/SignageCMS Client(MIT)	8GB	128 GB SSD	Win10 IoT	SignageCMS Client Pro

SignageCMS Server Device

P/N	Description	RAM	Storage	OS	SW
UBX-110HDSS-G1E-C	UBX110/i5-11/16G/1T/Win10/Signage Server	16 GB	1 TB SSD	Win10 IoT	SignageCMS Server Pro

SignageCMS Client Software

P/N	Description	SW
36ASDSC3CWST01	SignageCMS Windows Client Standard License	Requires SignageCMS Standard Private Server
36ASDSC3CWPR01	SignageCMS Windows Client Pro License	Requires SignageCMS Pro Private Server
36ASDSC3CAST01	SignageCMS Android Client Std License	Requires SignageCMS Standard Private Server
36ASDSC3CAPR01	SignageCMS Android Client Pro License	Requires SignageCMS Pro Private Server