

USM-210

4 HDMI Multi-Media Signage Player



DeviceOn/iService

Features

- Equipped with DeviceOn/iService software for remote device management
- Built-in Intel® Celeron® J3455 processor with fanless operation
- Enables superb graphic performance via FHD video output
- User friendly design for easy maintenance and installation
- Support optional Wi-Fi/4G module for real-time data transmission
- Support Win10 64bit and Linux Ubuntu 18.04 LTS OS
- Integrated with WISE-PaaS / SignageCMS Digital Signage Management Software
- RED Compliance



Specifications

Processor	CPU	Intel Celeron J3455 processor
	Max Speed	1.50 GHz~2.30 GHz
	TDP	10W
Memory	Technology	Dual channel DDR3L 204PIN SO-DIMM 1867MHz (Non-ECC)
	Max Capacity	4GB/8GB x 1
Storage	SATA 3.0	1
	M.2	1 x M.2 B-key 2280 for storage or 3042 for 4G (auto detect)
Graphic	Capacity	Intel® HD Graphics 500
	HDMI	3, HDMI 1/2/3, 3840 x 2160 @ 30 Hz (HDMI 1.4) 1, HDMI 4, 2048 x 1152 @ 60 Hz (Extend mode only, can only be used when one of other ports is active, no audio output)
	Multi Display	Up to 4 simultaneous outputs
	Video Format	Decode for MVC, H.264, VC-1, WMV9, H.265/HEVC, VP8, VP9, JPEG/MJPEG, MPEG2 Encode for H.264, MVC, H.265/HEVC, VP8, VP9, JPEG/MJPEG
Ethernet	Interface	2 x 10/100/1000 Mbps
	Controller	Realtek RTL8111G GbE LAN
Front IO	USB2.0	2
	Audio	2 (Line-out, Mic-in)
	Serial	1 x RS-232
Rear IO	HDMI	4
	RJ-45	2
	USB3.0	2
	Serial	1 x RS-232/422/485
	DC Jack	1
Expansion	M.2	1 x M.2 E-key 2230 for wifi
Physical Characteristics	Color	Black
	Dimension	230 x 155 x 38 mm (W x L x H)
	Weight	1.6kg
	Power	19V, 65W
Mounting Mode	Accessories	Wall Mounting, Desktop
Software	OS	Windows 10, Linux
Environment	Operating Temperature	0 ~ 40 °C
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
	Relative Humidity	90% @ 40 °C (non-condensing)
Certification		CCC/BSMI/CE/FCC/UL/CB

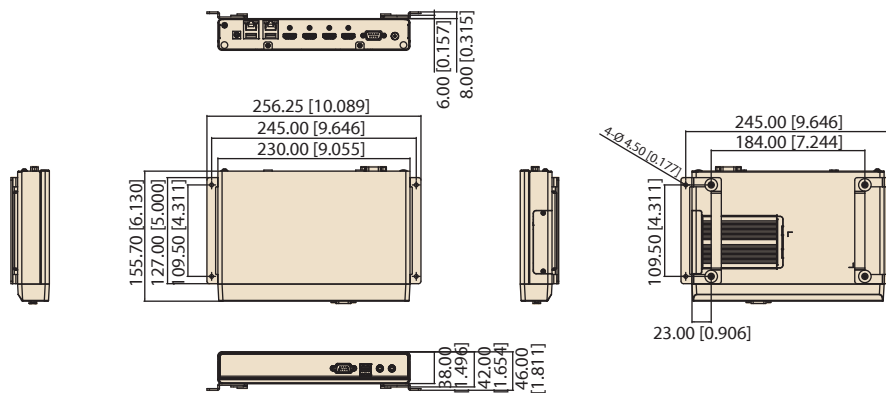
Specifications Cont.

DeviceOn/iService Remote Device Management	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (via VNC)
	Audio Controls	✓
	Connection Status	✓
	Hardware Status	✓
	Hard Disk Status	✓
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	✓
	Peripherals Watchlist	✓

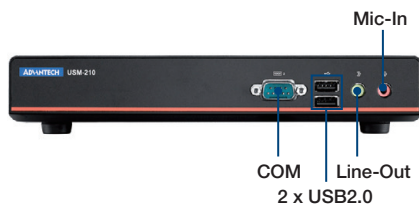
Note: DeviceOn/iService software must be download from the Advantech website at <https://www.advantech.com/search?q=DeviceOn%2FiService&st=support&sst=Utility>

Dimensions

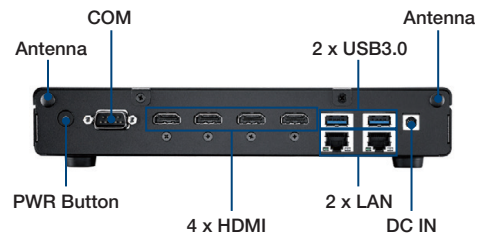
Unit: mm [inch]



Front View



Rear View



Packing List

PN	Description
USM-210G-BSTxx	1 x USM-210 unit
96PSA-A65W19V1-3	1 x Power Adaptor (DC 19V/3.42A 65W)
1960091659T001	2 x Wall Mount Kit
2048021000	1 x Startup Manual

Ordering Information

PN	Description
USM-210G-BST00	J3455, 4HDMI, 4USB, 2COM, 8G RAM, w/o storage
USM-210G-BST01	J3455, 3HDMI, 4USB, 2COM, 8G RAM, w/o HDD tray
USM-210G-UST00	J3455, 4HDMI, 4USB, 2COM, 8G RAM, w/o storage, made in Taiwan
USM-210G-UST01	J3455, 3HDMI, 4USB, 2COM, 8G RAM, w/o HDD tray, made in Taiwan

Optional Accessory

Accessory	PN	Description
RAM	AQD-SD3L4GN16-SG1	4G SO-DDR3-1600 512X8 1.35V&1.5V SAM
	AQD-SD3L8GN16-SG1	8G SO-DDR3-1600 512X8 1.35V&1.5V SAM
	AQD-SD3L4GN16-MG	4G SO-DDR3-1600 512X8 1.35V&1.5V MIC
	AQD-SD3L8GN16-MG	8G SO-DDR3-1600 512X8 1.35V&1.5V MIC
Storage	96ND500G-ST-WD5KG1	WD IPC 2.5" 500G 5KRPM SATA3 128MB 7MM
	96ND500G-ST-SG5KG	SG 2.5" 500G 5KRPM 7MM SATAIII 128MB
	SQF-S25U4-64G-SBC	SQF 2.5" SSD 640 64G UMLC (0-70°C)
	SQF-S25U4-128G-SBC	SQF 2.5" SSD 640 128G UMLC (0-70°C)
	96FD80-N064-TR71	Transcend M.2 2280 64GB SATA3 MLC
	96FD80-N128-TR71	Transcend M.2 2280 128GB SATA3 MLC
WiFi Module	EWM-W163M201E *1	802.11 a/b/g/n/ac,QCA6174A,2T2R,w/BT4.1,M.2 2230
	1750008717-01 *2	Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK
	1750007965-01 *1	Antenna Cable R/P SMA (M) to MHF4, 300mm
	1750008800-01 *1	Cable Ant.SMA/F-R-BH MFH4/113 BLK L100
LTE Module	EWM-C186M201E *1	M.2 3042 Key-B LTE CAT16 module
	1750008818-01 *2	Dipole Ant. LTE SAM/M BLK OD10x133mm
	1750008950-01 *1	Cable Ant. SMA/F-BH MFH4/113 BLK L320mm
	1750008951-01 *1	Cable Ant. SMA/F-BH MFH4/113 BLK L210mm
HDMI Cable	1700023855-11	M Cable HDMI 19P(M)/HDMI 19P(M) 100cm w/Lock
	1700029437-01	M CABLE HDMI 19P(M)/HDMI 19P(M) 200cm for AMIS-5
Power Cord	1700024849-01	Power Cord BSMI 3P 2.5A 125V 180CM
	1700001524	Power Cord UL 3P 10A 125V 183cm
	1700019146	Power Cord CCC 3P 2.5A 250V 183cm
	170203183C	Power Cord EU 3P 2.5A 250V 183cm
Operation System	20708WX9ES0034	Img WIN10 LTSC-ELE USM-210G V1.01 x64 7MUI

DeviceOn/iService

Unified Remote Device Management Software



Features

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management



Devices & Hardware

- Windows, Linux, Android
- Hardware, storage, battery



Software & Peripherals

- Software monitoring & access
- Screens, USB devices, printers



Open for Expansion

- Peripheral integration
- Open APIs for integration

Remote Access



Real-Time Monitoring

- Connection/hardware status
- Software/peripheral status
- Failure notifications



Remote Controls

- Power controls
- Audio, backlight controls
- Software controls



Troubleshooting

- Screenshots
- Remote desktop support

Operational Efficiency



OTA updates

- System/software updates
- File repository management
- App store



Batch Controls

- 1-to-many batch reboot, etc.
- Time-saving tasks



Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture

