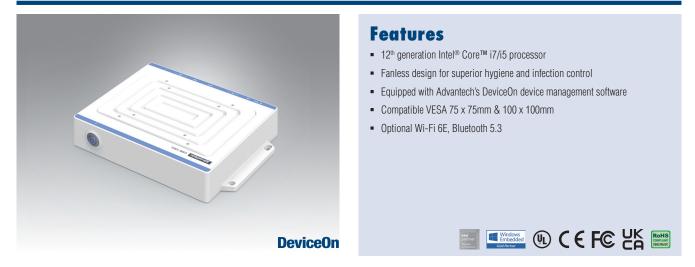
# **USM-100H**

#### Medical Mini Computer with Intel 12<sup>th</sup> Generation processor



#### Introduction

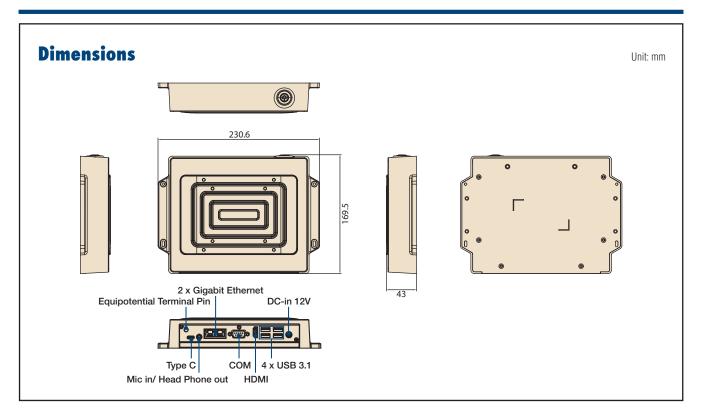
USM-100H is equipped with an integrated NVME SSD that facilitates real-time data processing and storage. Compliant with IEC/EN60601-1-2 Medical EMC standards for electrical devices, USM-100H terminals are built for reliable operation in a wide range of healthcare environments.

Moreover, USM-100H is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn enables easy device configuration and deployment for convenient remote device management.

#### **Specifications**

-		
Computing System	CPU	Intel <sup>®</sup> Core™ I5-1245UE 10cores,12M Cache, up to 4.40 GHz Intel <sup>®</sup> Core™ i7-1265UE 10cores,12M Cache, up to 4.70 GHz
	Memory	Memory (default) 8GB DDR5 (supports up to 32GB DDR5 SODIMM)
	Wi-Fi (M.2 2230)	1 (for Wi-Fi 6E)
	BlueTooth	BT5.3 (option)
	OS	(Optional) Win10 LTSC; Win 11 Pro; Ubutu 20.04
Storage	Primary Storage	NVME M.2 SSD 256GB (Max. support 2TB)
	DC in	x 1, DC 12V, max. 84W
	USB 3.1 Gen2 (Type A)	x 4
	USB 3 Type C	x 1 (For display only)
I/0	COM, RS232	x 1
	HDMI	x1
	LAN non-isolation	1G x 2
	Mic in/ Head phone out	x1
	Dimensions (W x H x D)	169.5 x 230.6 x 43mm
Physical Characteristics	VESA Mount	100 x 100; 75 x 75mm
	Weight	1.5kg
Power Input	AC/DC AC:100-240V, 96W, DC:12V, LOCK PLUG, Medical grade	
Power Button	Power with LED indicator	x1
Certificate	EMC & Safety Cert.	Medical CE, FCC, IEC/EN 60601-1-2 4.1th, IEC/EN 60601-1 3.2th
Environment Temperature	Operating	0 ~ 35 °C/32 ~ 95 °F
	Storage	0 ~ 50 °C/32 ~ 122 °F
Humidity	Operating	10 ~ 95%, 40 °C
	Storage	5 ~ 95%, 60 °C
Shock Resistance	10G peak acceleration (11ms duration)	
Warranty	System 2 years	

#### USM-100H



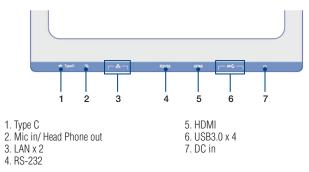
## **Order Information**

Part Number	Description	DRAM	SSD	WIFI
USM-100H-5400DA1	Core i5,8G RAM,DC In	8GB DDR5	Optional	Optional
USM-100H-7400DA1	Core i7,16G RAM,DC In	16GB DDR5	Optional	Optional

#### **Power Cord**

Region	Part Number (DC Model)
USA (Thailand, Philippines)	1702002600
Europe (Indonesia)	1702002605
UK (Singapore, Malaysia)	1700018704
Japan (PSE)	170000237

## I/O View



## **Component Offerings**

#### Memory

Part Number	Description
SQR-SD5N8G5K6SNGPB	SODIMM DDR5 5600 8GB 1Gx16 Samsung
SQR-SD5N16G5K6SNPB	SODIMM DDR5 5600 16GB 2Gx8 Samsung
SQR-SD5N32G5K6SNPB	SODIMM DDR5 5600 32GB 2Gx8 Samsung

#### M.2 2280 SQF NVME

Part Number	Description
SQF-C8MV2-128GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 128G 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8MV2-256GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 256G 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8MV4-512GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 512G 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8MV4-1TCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 1T 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8MV4-2TDEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 2T 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8BV2-128GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 128G 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8BV2-256GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 256G 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8BV4-512GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 512G 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8BV4-1TDEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 1T 3D TLC BiCS4 (0 ~ 70 °C)
SQF-C8BV4-2TDEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 2T 3D TLC BiCS4 (0 ~ 70 °C)

#### Wi-Fi + BT Module

Part Number	Description
EWM-W165M201E	Intel® Dual Band Wireless-AX210 (WiFi 6)

## **Bundle Selling with Medical-Grade Displays**

Medical displays, PAX series, and box PCs, USM-100H operations work together to enable input/output of information, managing resources, and ensuring communication and security protocols for clinical application.

PAX series: Factory calibration included (choose either GAMMA or DICOM), user re-calibration supported

Part Number	Glass	Color
Display: PAX-121W-C2A-LFD	Clear Glass	White
Box PC: USM-100H-5400DA2	N/A	White
HDMI(1.2m): 1700023591-01	N/A	Black

# **Recommended Mounting Solution**

Model Name	ARES-2421R
Part Number	ARES-2421R-HA74100
Photo	
Max. Support Weight	2 - 8kg
Max. Support Panel Size	≦ 27"
VESA Information	75 x 75 mm 100x100 mm

For more information, please clink this link: <u>https://bit.ly/3T7dLMR</u>

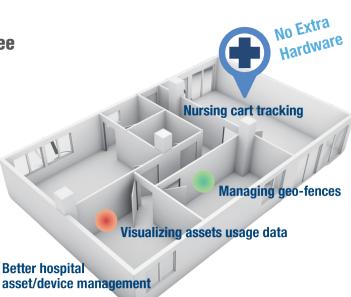


# Software Add-ons Device real-time location software

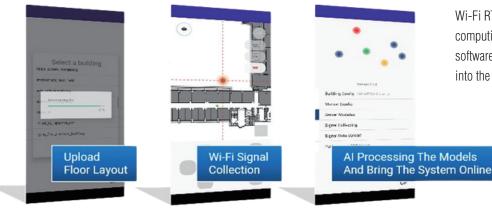
# Wi-Fi RTLS infra-free

#### Seamlessly connect your edge computing devices into the RTLS system

Advantech Wi-Fi RTLS infra-free software enables immediate location tracking and status monitoring of devices. RTLS contributes to asset management, improves patient care efficiency, and ensures equipment is used sustainably. It also supports compliance with health and safety regulations.



# **Deploy Faster**



Wi-Fi RTLS is a perfect fit for edge computing devices. By embedding the software, devices can seamlessly integrate into the RTLS system.

#### **Order Information**

Part Number	Description
31ASRTLSOF01B1	Android
31ASRTLSOF01B2	Windows
31ASRTLSOF01B3	Linux

Supported Models: POC-4/6/8 series; USM-1/3/5 series ; HIT-3/5 series

#### **Contact us**

Email: AiH.service@advantech.com

Click the link to visit our product page for more details, or scan the QR code.



# **DeviceOn**

#### Unified Remote Device Management Software

# <section-header>

#### **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**

#### Remote Access

#### **Devices & Hardware Real-Time Monitoring OTA updates** <u>YII</u> ΟΤΑ Windows, Linux, Android Connection/hardware status System/software updates Hardware, storage, battery Software/peripheral status File repository management . Failure notifications App store **Software & Peripherals Remote Controls Batch Controls** 08 ၀။ Software monitoring & access Power controls 1-to-many batch reboot, etc. Screens, USB devices, printers Audio, backlight controls Time-saving tasks Software controls . **Open for Expansion** Troubleshooting **Setup Booster** i (<sup>1</sup>) ΆΡΙ **~** Peripheral integration Screenshots Software/peripheral watchlist 500 Open APIs for integration Remote desktop support Roles, rule templates Note: Some functions may vary according to the product **System Architecture** I AN Internet **Client Devices** DeviceOn Server Browser ۵ 🕽 🏔 Peripherals Cloud Hardware Software On-site installation Monitor status

Free Installation

Download Installer Via the Advantech website

Required Hardware ₩ Windows10 🔗 86B RAM 🔯 Intel® Core™ 15 storage

#### **Operational Efficiency**

Free Installation Via browser

**AD\ANTECH** 

# DeviceOn/iService Specifications

	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	$\checkmark$
	Remote desktop	√(VNC)
	Device-Specific Controls (Audio, Backlight)	$\checkmark^{\star}$
	Connection Status	$\checkmark$
Davias On /iCan ias Damata	Hardware Status	$\checkmark^{\star}$
DeviceOn/iService Remote Device Management	Hard Disk Status	$\checkmark^{\star}$
	Batch Operation Support	$\checkmark$
	OTA Storage Management	FTP
	OTA Software Updates	$\checkmark$
	Software Watchlist	$\checkmark$
	Software Start/Stop	$\checkmark^{\star}$
* Dependant on device model	Peripherals Watchlist	$\checkmark^{\star}$

Note: 1. DeviceOn/iService software must be downloaded from the Advantech website at https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility