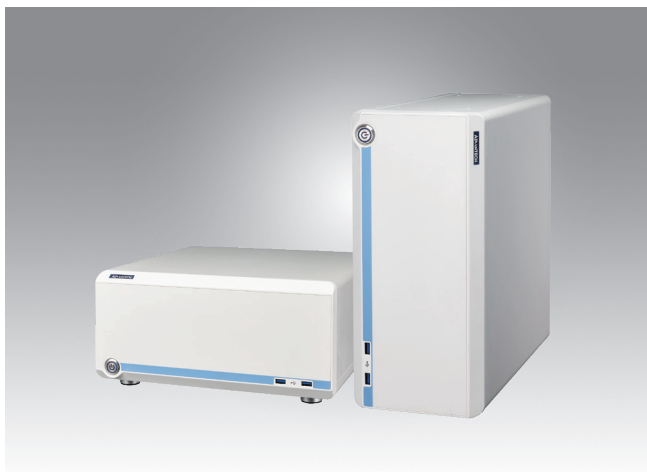


# USM-500

## Professional Tower/Standalone Medical Computer with NVIDIA IGX



### Features

- Stylish and user friendly outlook for hospital environment
- Harness the power of the NVIDIA IGX advanced functional safety and security platform for medical AI applications
- IGX is powered by the world's most powerful AI computer for energy-efficient autonomous machines with 275 tera operations per second (TOPS) of AI performance and includes an NVIDIA® ConnectX®-7 smart network interface card (SmartNIC) with 200 gigabits per second (Gb/s) of networking speed; ideal for securely ingesting high frame rate raw video



### Introduction

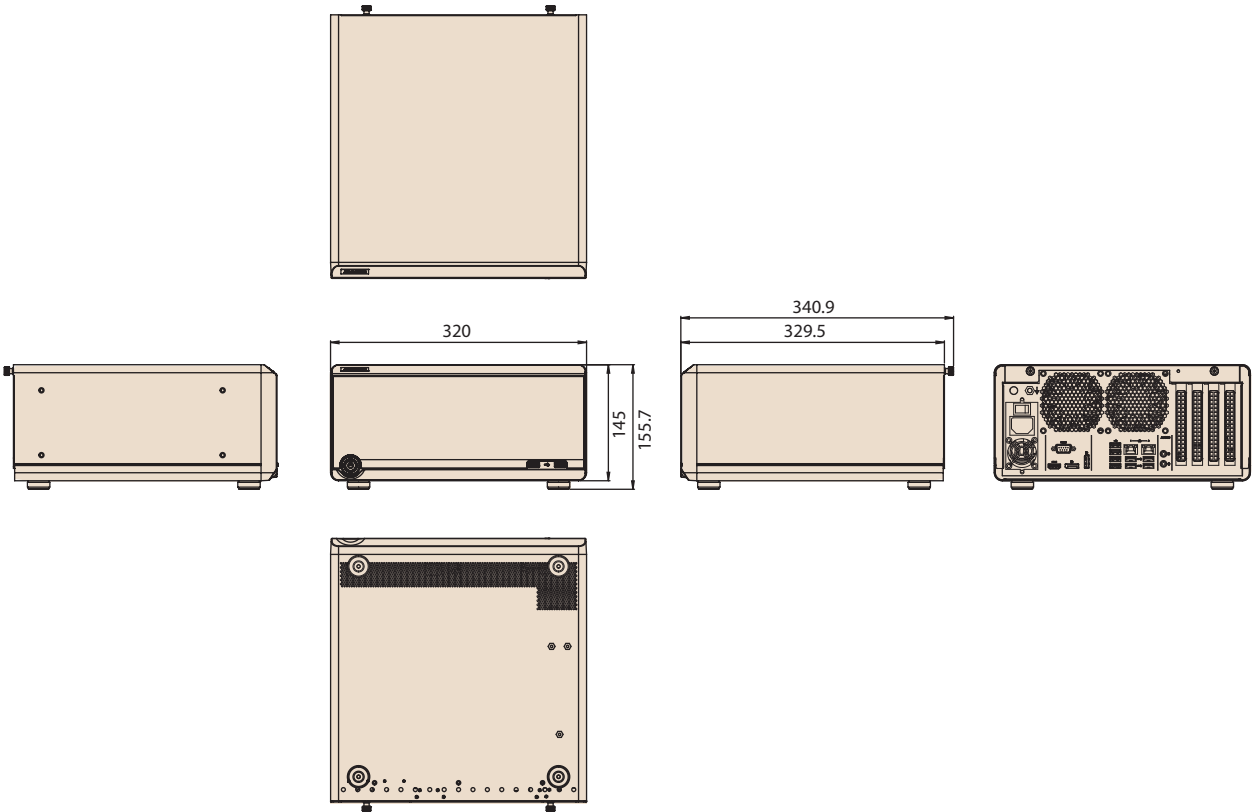
NVIDIA IGX delivers ultra-fast performance in the size and power envelope needed for the edge. Powered by the world's most powerful AI computer for energy-efficient autonomous machines and an NVIDIA® ConnectX®-7 smart network interface card (SmartNIC), IGX expands upon traditional commercial offerings with long-term support, advanced functional safety, and enhanced security.

### Specifications

|                  |                                                                   |                                                                  |
|------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| Model Name       | USM-500 IGX                                                       |                                                                  |
| Computing System | CPU                                                               | 12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3       |
|                  | Memory                                                            | 64GB 256-bit LPDDR5<br>204.8 GB/s                                |
|                  | Wi-Fi (M.2 2230)                                                  | Optional Wi-Fi 6                                                 |
|                  | Bluetooth                                                         | Optional Bluetooth 5.3                                           |
|                  | OS                                                                | Linux                                                            |
| Storage          | Primary Storage                                                   | 512GB SSD (M.2 2280) (max. 1TB)                                  |
|                  | Secondary Storage                                                 | Available as option (max. 2TB x 4)                               |
| I/O Ports        | DC in                                                             | x 1                                                              |
|                  | USB 3.2 Type A                                                    | 6                                                                |
|                  | USB 3.2 Type C                                                    | 1                                                                |
|                  | DP                                                                | 1                                                                |
|                  | QSFP                                                              | 2                                                                |
|                  | LAN                                                               | x 2                                                              |
|                  | Line-out                                                          | 2                                                                |
|                  | Mic-in                                                            | x 1                                                              |
| Expansion        | PCIe Slot                                                         | 1 x PCIe (x8) 1 x PCIe (x16)                                     |
| Power Input      | Input Voltage                                                     | AC 100-240V, 11.5-5.5A, 50-50Hz or 200-240V, 5.5A, 60-50Hz, 900W |
| Certification    | CE, FCC, IEC/EN 60601-1-2 4.1th, IEC/EN 60601-1 3.2th(compliance) |                                                                  |

Dimensions

Unit: mm



Order Information

Standard Model

| Part Number      | Description                                                 | PSU  | CPU (on board) | RAM on board) | M.2 SSD | 2.5" SSD | WIFI  |
|------------------|-------------------------------------------------------------|------|----------------|---------------|---------|----------|-------|
| USM-500-IGXG6V12 | USM-500IGX with NVIDIA platform 6000Ada/2T M.2/2T 2.5"/WIFI | 900W | A78AE          | 64GB          | 2T      | 2T       | AX210 |
| USM-500-IGXG00A1 | USM-500IGX barebone with NVIDIA platform /2T M.2            | 900W | A78AE          | 64GB          | 2T      | x        | x     |

## Component Offerings

### M.2 SSD

| Part Number        | Description                          |
|--------------------|--------------------------------------|
| SQF-C8MV2-256GDEDM | SQF M.2 2280 720-D 256G 3D TLC BiCS5 |
| SQF-C8MV2-512GDEDM | SQF M.2 2280 720-D 512G 3D TLC BiCS5 |
| SQF-C8MV4-1TDEDM   | SQF M.2 2280 720-D 1T 3D TLC BiCS5   |
| SQF-C8MV4-2TDEDM   | SQF M.2 2280 720-D 2T 3D TLC BiCS5   |

### Graphic Card

| Part Number       | Description                                      |
|-------------------|--------------------------------------------------|
| SKY-QUAD-6000A-48 | Quadro RTX 6000 Ada PCIe 48GB DSFH w/ATX BKT BUL |

### Cable

| Part Number        | Description                                   |
|--------------------|-----------------------------------------------|
| 1700018705         | Power Cord EU 3P 10A 250V 183cm               |
| 1702002600         | Power Cord UL 3P 10A 125V 183cm               |
| 96CB-POWER-B-1.8MA | POWER CORD H05VV-F 3G 0.75MM 1.8M BK(G)_CN    |
| 1700023855-11      | M Cable HDMI 19P(M)/HDMI 19P(M) 100cm w/ Lock |
| 1700029605-01      | 200 cm DVI to DVI Cable                       |

### 2.5" SSD

| Part Number        | Description                                 |
|--------------------|---------------------------------------------|
| SQF-S25V1-256GDSDC | SQF 2.5" SATA SSD 650-D 256G 3D TLC (BiCS5) |
| SQF-S25V2-512GDSDC | SQF 2.5" SATA SSD 650-D 512G 3D TLC (BiCS5) |
| SQF-S25V4-1TDSDC   | SQF 2.5" SATA SSD 650-D 1T 3D TLC (BiCS5)   |

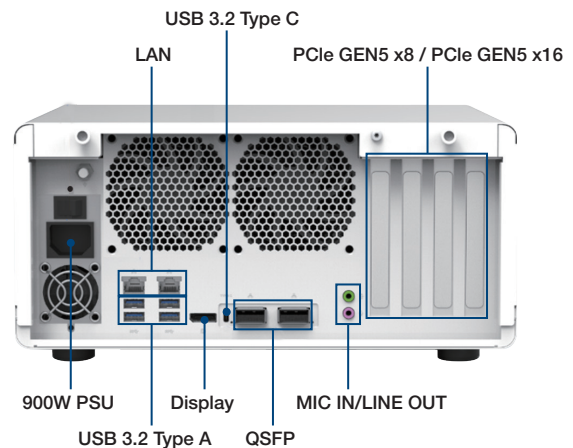
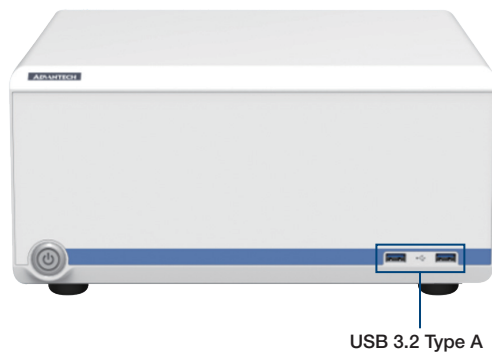
### Capture Card

| Part Number | Description                               |
|-------------|-------------------------------------------|
| DVP-7025UHE | 2-ch 4k60 12G-SDI PCIe Video Capture Card |
| DVP-7031UHE | 4ch UHD HDMI PCIe SW Video Card           |

### WiFi Kit

| Part Number   | Description                                     |
|---------------|-------------------------------------------------|
| EWM-W165M201E | Wi-Fi 6 + BT Module 2.4/5/6GHz M.2 2230 No.Vpro |
| EWM-W165M202E | Wi-Fi AX2106E 2230 M.2 Key E                    |

## I/O View



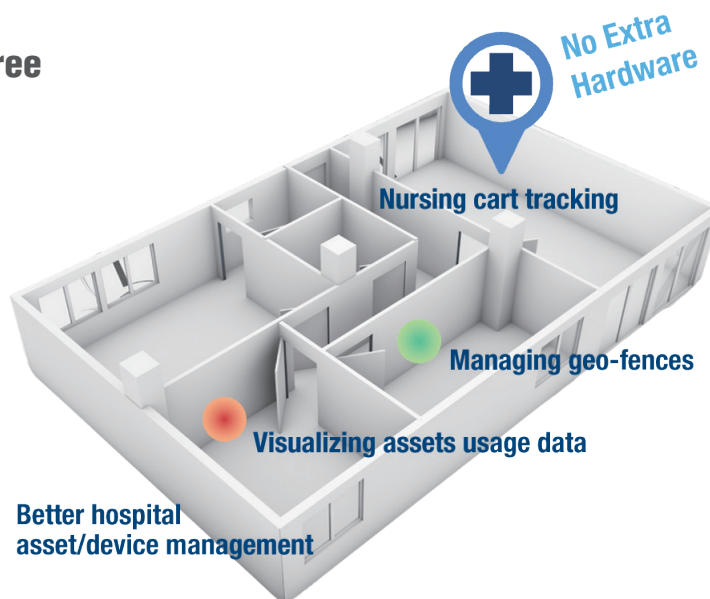
# Software Add-ons

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

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Click the [link](#) to visit our product page for more details, or scan the QR code.

