

<b>Model Name</b>	TS-EC2480U-E3-4GE-R2 TS-EC2480U-i3-4GE-R2 TS-EC2480U-i3-8G-R2
<b>CPU</b>	TS-EC2480U-E3-4GE-R2: Intel® Xeon® E3-1246 v3 Quad-core processor TS-EC2480U-i3-4GE-R2: Intel® Core i3-4150 processor TS-EC2480U-i3-8G-R2: Intel® Core i3-4150 processor
<b>Memory</b>	Total memory slots: 4 <b>TS-EC2480U-E3-4GE-R2/ TS-EC2480U-i3-4GE-R2:</b>  System memory: 4 GB DDR3 ECC RAM Memory module pre-installed: 2 GB x2 Memory expandable up to: 32 GB (8GB x4)  <b>TS-EC2480U-i3-8G-R2:</b> System memory: 8 GB DDR3 non-ECC RAM Memory module pre-installed: 4 GB x2 Memory expandable up to: 32 GB (8GB x4)  Note: <ol style="list-style-type: none"> <li>1. When upgrading RAM to more than 28GB, the original 4GB RAM modules must be removed.</li> <li>2. For the information of RAM module installation and compatible NAS models, please refer to the <a href="#">QNAP RAM Module Installation Guide</a></li> </ol>
<b>Flash Memory</b>	512MB DOM
<b>Internal Cache Port</b>	Two mSATA port on board for read caching Note: The standard system is shipped without mSATA flash. For the optional mSATA flash, please visit <a href="http://shop.qnap.com/">http://shop.qnap.com/</a>
<b>Hard Drive</b>	24 x 3.5-inch SATA 6Gbps/3Gbps hard drive or 2.5-inch SATA, 6Gbps/3Gbps hard drive SSD hard drive <b>NOTE:</b> <ol style="list-style-type: none"> <li>1. The standard system is shipped without hard drives.</li> <li>2. For the hard drive compatibility list, please visit <a href="#">Compatibility list</a></li> </ol>
<b>Hard Drive Tray</b>	24 x hot-swappable and lockable tray
<b>LAN Port</b>	Built-in 2 x 10 GbE SFP+ ports (LAN-10G2SF-MLX) and 4 x GbE ports 40GbE is optional  Note: <ol style="list-style-type: none"> <li>1. For the optional network card compatibility list, please visit <a href="#">Compatibility list of Expansion Card</a></li> <li>2. For the information of network card installation, please refer to chapter 6 in the <a href="#">Turbo NAS Hardware Manual</a>.</li> </ol>
<b>LED Indicators</b>	Status, 10 GbE, LAN, eSATA, storage expansion port status
<b>USB</b>	4x USB 3.0 port (rear) 4x USB 2.0 port (rear)  Support USB printer, pen drive, USB hub, and USB UPS etc.
<b>Buttons</b>	System: Power button and reset button
<b>Alarm Buzzer</b>	System warning
<b>Form Factor</b>	4U, Rackmount
<b>Dimensions</b>	176.15(H) x 442.5(W) x 530.5(D) mm 6.94(H) x 17.42(W) x 20.89(D) inch
<b>Weight</b>	Net weight (NAS only) : 23.08 kg/50.88 lb Gross weight (with packing and accessories) : 28.56 kg/ 62.96 lb
<b>Power Consumption (W)</b>	Sleep mode: 129.43 In Operation: 263.81 W (with 24 x HITACHI HUS724020ALA640 hard drive installed)

Sound Level*	Sound pressure (LpAm) :48.3 dB(A)
Temperature	0-40 ° C
Relative Humidity	5-95% non-condensing, wet bulb: 27 ° C.
Power Supply	Redundant power: Input: 50-60 Hz; 100-127V~/ 8.5A; 200-240V/ 4.2A Output: 650W
PCIe Slot	2 (Right slot: 1* PCIe Gen3 x8; Left slot: 1* PCIe Gen3 x4)  Note: The PCIe Gen3 x8 slot is occupied by a 10GbE network adapter.
Fan	4 x 8 cm smart cooling fan

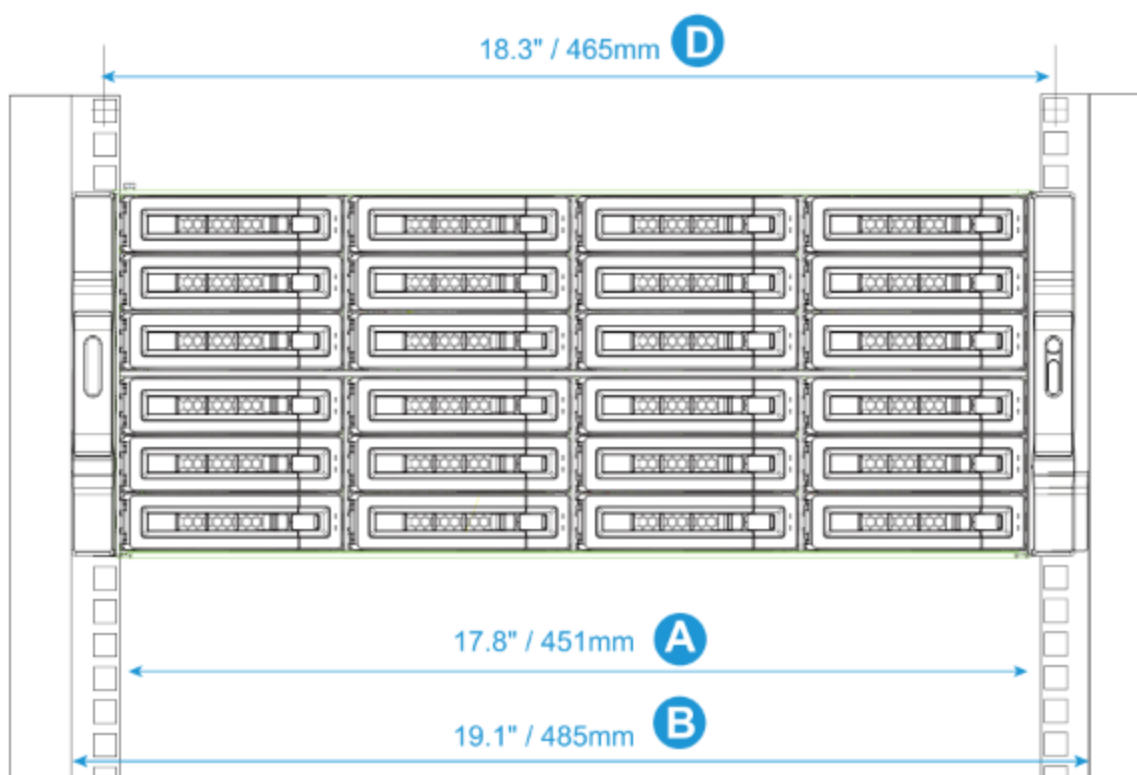


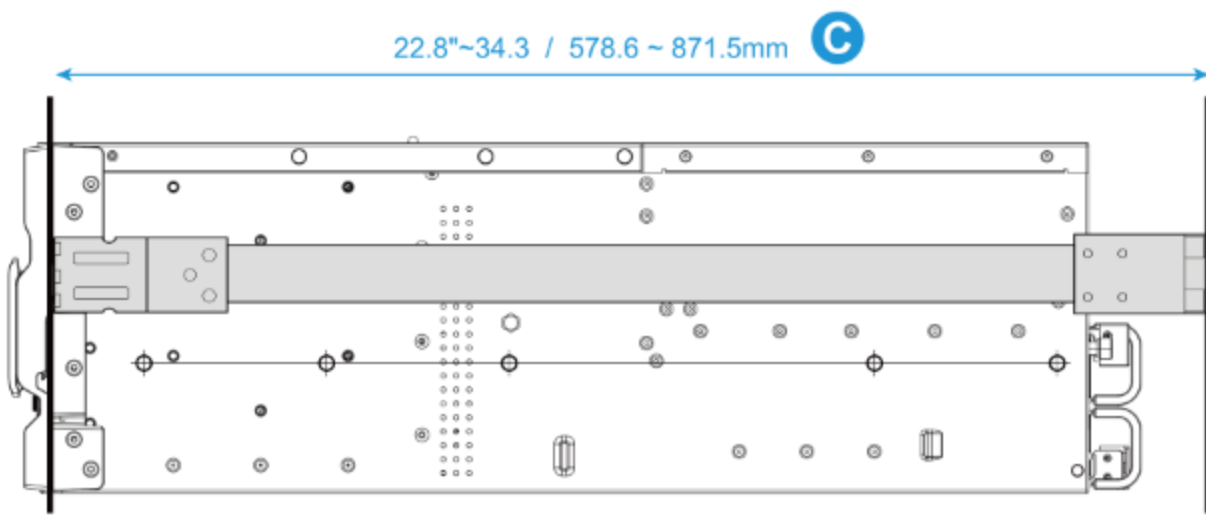
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|--|-----------------------------|
| 1. Power Button  | 6. USB 3.0 Port x 4         |
| 2. LED Indicators:<br>10 GbE, Status, LAN, Storage Expansion Port Status | 7. HDMI port                |
| 3. Password & Network Settings Reset Button                              | 8. Dual port 10GbE SFP+     |
| 4. USB 2.0 Port x 4  | 9. PCIe slot (PCIe Gen3 x4) |
| 5. Gigabit LAN x 4   | 10. Power connector         |

**Remark:**

The TS-x80 rack mount models comply with ANSI/EIA-RS-310-D rack mounting standards. Before purchasing the server racks for these models, please make sure the server racks conform to the following criteria:

1. Rack size
  - A. Mounting post width:  $\geq 451\text{mm}$
  - B. Panel width:  $\geq 485\text{mm}$
  - C. Mounting post depth:  $578.6 \sim 871.5\text{mm}$
  - D. The distance between two rack posts is  $465\text{mm}$  (center-to-center measurement of the rack's square holes)





2. The optional rack kits for the TS-x80 rack mount models are only compatible with square-hole server racks.



\* Testing Environment:

Refer to ISO 7779 ; Maximum HDD loaded ; Bystander Position ; Average data from 1 meter in front of operating NAS