

TS-EC1680U

Model Name	<p>TS-EC1680U-E3-4GE-R2</p> <p>TS-EC1680U-i3-4GE-R2</p> <p>TS-EC1680U-i3-8G-R2</p>
CPU	<p>TS-EC1680U-E3-4GE-R2: Intel® Xeon® E3-1246 v3 Quad-core processor</p> <p>TS-EC1680U-i3-4GE-R2: Intel® Core i3-4150 processor</p> <p>TS-EC1680U-i3-8G-R2: Intel® Core i3-4150 processor</p>
Memory	<p>Total memory slots: 4</p> <p>TS-EC1680U-E3-4GE-R2/ TS-EC1680U-i3-4GE-R2:</p> <p>System memory: 4 GB DDR3 ECC RAM</p> <p>Memory module pre-installed: 2 GB x2</p> <p>Memory expandable up to: 32 GB (8GB x4)</p> <p>TS-EC1680U-i3-8G-R2:</p> <p>System memory: 8 GB DDR3 non-ECC RAM</p> <p>Memory module pre-installed: 4 GB x2</p> <p>Memory expandable up to: 32 GB (8GB x4)</p> <p>Note:</p> <ol style="list-style-type: none"> When upgrading RAM to more than 28GB, the original 4GB RAM modules must be removed. For the information of RAM module installation and compatible NAS models, please refer to the QNAP RAM Module Installation Guide
Flash Memory	512MB DOM
Internal Cache Port	<p>Two mSATA port on board for read caching</p> <p>Note: The standard system is shipped without mSATA flash. For the optional mSATA flash, please visit http://shop.qnap.com/</p>
Hard Drive	<p>16 x 3.5-inch SATA 6Gbps/3Gbps hard drive or 2.5-inch SATA, 6Gbps/3Gbps hard drive SSD hard drive</p> <p>NOTE:</p> <ol style="list-style-type: none"> The standard system is shipped without hard drives. For the hard drive compatibility list, please visit Compatibility list
Hard Drive Tray	16 x hot-swappable and lockable tray

LAN Port	Built-in 2 x 10 GbE SFP+ ports (LAN-10G2SF-MLX) and 4 x GbE ports 40GbE is optional Note: 1. For the optional network card compatibility list, please visit Compatibility list of Expansion Card 2. For the information of network card installation, please refer to chapter 6 in the Turbo NAS Hardware Manual .
LED Indicators	Status, 10 GbE, LAN, eSATA, storage expansion port status
USB	4x USB 3.0 port (rear) 4x USB 2.0 port (rear) Support USB printer, pen drive, USB hub, and USB UPS etc.
Buttons	System: Power button and reset button
Alarm Buzzer	System warning
Form Factor	3U, Rackmount
Dimensions	130(H) x 442.5(W) x 530.5(D) mm 5.12(H) x 17.42(W) x 20.89(D) inch
Weight	Net weight (NAS only) : 18.3 kg/40.34 lb Gross weight (with packing and accessories) : 24.18 kg/ 53.30 lb



Power Consumption (W)	Sleep mode: 82.4 In Operation: 166.58 W (with 16 x HITACHI HUS724020ALA640 hard drive installed)
Sound Level*	Sound pressure (LpAm) :40.5 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

