QNAP TS-1280U-E3 12-BAY

Model Name	TS-EC1280U-E3-4GE-R2 TS-EC1280U-i3-4GE-R2 TS-EC1280U-i3-8G-R2
CPU	TS-EC1280U-E3-4GE-R2: Intel® Xeon® E3-1246 v3 Quad-core processor TS-EC1280U-i3-4GE-R2: Intel ® Core i3-4150 processor TS-EC1280U-i3-8G-R2:Intel® Core i3-4150 processor
Memory	Total memory slots: 4 **TS-EC1280U-E3-4GE-R2/ TS-EC1280U-i3-4GE-R2:** System memory: 4 GB DDR3 ECC RAM Memory module pre-installed: 2 GB x2 Memory expandable up to: 32 GB (8GB x4) **TS-EC1280U-i3-8G-R2:** System memory: 8 GB DDR3 non-ECC RAM Memory module pre-installed: 4 GB x2 Memory expandable up to: 32 GB (8GB x4) Note: 1. When upgrading RAM to more than 28GB, the original 4GB RAM modules must be removed. 2. 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	Two mSATA port on board for read caching Note: The standard system is shipped without mSATA flash. For the optional mSATA flash, please visit http://shop.qnap.com/
Hard Drive	12 x 3.5-inch SATA 6Gbps/3Gbps hard drive or 2.5-inch SATA, 6Gbps/3Gbps hard drive SSD hard drive **NOTE:** 1. The standard system is shipped without hard drives. 2. For the hard drive compatibility list, please visit Compatibility list
Hard Drive Tray	12 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	2U, Rackmount
Dimensions	88(H) x 442.5(W) x 530.5(D) mm 3.46(H) x 17.42(W) x 20.89(D) inch
Weight	Net weight (NAS only) : 14.18 kg/ 31.26 lb Gross weight (with packing and accessories) : 21.41 kg/ 47.20 lb
Power Consumption (W)	Sleep mode: 80.41 In Operation: 166.58 W (with 12 x 1TB hard drive installed)
Sound Level*	Sound pressure (LpAm) :55.3 dB(A)
Temperature	0-40˚C
Relative Humidity	5~95% non-condensing, wet bulb: 27˚C.
Power Supply	Redundant power: Input: 47-63 Hz; 100-127V~/ 8A; 200-240V/ 4A Output: 400W
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 6 cm smart cooling fan