



TS-431XeU-8G

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| CPU | AnnapurnaLabs Alpine AL314 32-bit ARM® Cortex-A15 4-core 1.7GHz processor |
| CPU Architecture | 32-bit ARM |
| Floating Point Unit | Yes |
| Encryption Engine | Yes |
| System Memory | 8 GB SODIMM DDR3 (1 x 8 GB) |
| Maximum Memory | 8 GB (1 x 8 GB) |
| Memory Slot | 1 x SODIMM DDR3 |
| Flash Memory | 512MB (Dual boot OS protection) |
| Drive Bay | 4 x 3.5-inch SATA 6Gb/s, 3Gb/s |
| Drive Compatibility | 3.5-inch bays: 3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives |
| Hot-swappable | Yes |
| SSD Cache Acceleration Support | Yes |
| Gigabit Ethernet Port (RJ45) | 2 |
| 10 Gigabit Ethernet Port | 1 x 10GbE SFP+ |
| Wake on LAN (WOL) | Yes |
| Jumbo Frame | Yes |
| USB 3.2 Gen 1 port | 4 |
| Form Factor | 1U Short Depth Rackmount |
| LED Indicators | HDD 1-4, Status, USB, LAN1-3 |
| Buttons | Power, Reset |

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| Dimensions (HxWxD) | 43.3 × 430 × 291 mm Excludes ear hook and the protruding part of the Power Supply Unit. |
| Weight (Net) | 5 kg |
| Weight (Gross) | 5.9 kg |
| Operating Temperature | 0 - 40 °C (32°F - 104°F) |
| Storage Temperature | -20 - 70°C (-4°F - 158°F) |
| Relative Humidity | 5-95% RH non-condensing, wet bulb: 27°C (80.6°F) |
| Power Supply Unit | Open-frame 100W, Input: 100V-240V ~ / 3.5A, 50Hz-60Hz |
| Power Consumption: HDD Sleep Mode | 12.42 W |
| Power Consumption: Operating Mode, Typical | 30.99 W Tested with drives fully populated. |
| Fan | 3 x 40mm, 12VDC |
| System Warning | Buzzer |
| Kensington Security Slot | Yes |
| Standard Warranty | 3 |
| Max. Number of Concurrent Connections (CIFS) - with Max. Memory | 400 |

Note: Use only QNAP memory modules to maintain system performance and stability. For NAS devices with more than one memory slot, use QNAP modules with identical specifications and refer to the hardware user manual to install compatible QNAP memory modules.

Warning: Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting. QNAP reserves the right to replace partial parts or accessories if the original is no longer available from its manufacturer/supplier. Any replacement would be fully tested and verified to meet strict compatibility and stability guidelines and will deliver identical performance to the original.

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