

Overview

The TCPWave TW450 appliance is a powerful DDI (DNS/DHCP/IPAM) hardened server based on the rock solid, industry-proven Dell PowerEdge R450. Together, TCPWave and Dell specify, validate, and deliver a platform consisting of TCPWave secure software that optimally controls and future proofs your DDI environment.

The TW450 is available in two orderable configurations:

- **IP Address Management (IPAM):** Provides the necessary IPAM software infrastructure, including web-based User interface, database, secure communication software, disaster recovery, discovery, patch management, cloud management and other critical features, that allows you to define and manage your IPv4 and IPv6 address space (networks, subnets, objects, DNS/DHCP appliances, etc.).
- **Remote:** Provides the secure communication layer along with DNS/DHCP and other network services (NTP, SNMP, resiliency) that are tailored to provide non-stop functionality.

The TW450 can be used to manage a relatively simple network on a single appliance or be used in conjunction with other TCPWave appliances to control the largest, most demanding networks.



Features

- TCPWave is the single source for both hardware and software.
- Simplified “rack and stack” installation and turn-up of IPAM/DNS/DHCP services.
- Intel® Xeon® Silver multi-core and multi-threading enables simultaneous processing within appliance.
- Green technology saves power during idle states.
- Advanced “Lights Out” management allows administrators to quickly interact with appliance and diagnose any potential hardware issues.
- Hardware built and sourced in country by Dell to minimize shipping delays and issues involving customs.
- Hardware repair and replacement by dedicated Dell technicians minimizes downtime.
- Two (2) 10G/25G Fiber Optical NICs for increased throughput.

Technical Specifications

Feature	Specification
Form Factor	1U Rack-Mountable server
Processor	Intel Xeon Silver 4310 2.1G, 10.4GT/s, 18M Cache, Turbo, HT (120W) DDR4-2666, 12 Cores (24 Threads)
Software	TW450 platform includes security-hardened 64-bit Linux (based on RHEL7). TCPWave IPAM or TCPWave Remote software
Memory	96 GB (3200MT/s RDIMMs)
Storage/RAID	4 x 2.4TB Hot-Plug Hard Disks (configured as RAID 10)
Performance	DNS: 1M+ queries per second (QPS); DHCP: 2,800+ leases per second (LPS)
Power Supply	2 x 800W Hot-Plug Redundant Power Supplies
Environmental Specifications	Continuous operations: 10°C to 35°C (50°F to 95°F) at 10% to 80% RH with 29°C (84.2°F) dew point. Expanded operations: 5°C to 40°C (40°F to 104°F) at 5% to 85% RH with 29°C (84.2°F) dew point
Mean Time Between Critical Failure (MTBCF)	110,000 Hours
Voltage	Voltage: 100-240 VAC, auto-ranging, 50/60 Hz
Thermal Load	Idle: 72 Watts, 245 BTU/Hr; 50% CPU: 116 Watts, 395 BTU/Hr; 100% CPU: 169 Watts, 576 BTP/Hr
Lights Out Management	Dell iDRAC9 Enterprise Lights Out Management remote management
Network Connections	4 Gigabit Ethernet NICs; 2 SFP+ 10G/25G Fiber NICs (with 2 SFP+ Transceivers)
External I/O Ports	2 USB 2.0 (Front), 2 USB 3.0 (Back), 1 USB 3.0 (Internal), 1 iDRAC9 NIC (Back), 1 Serial (Back), 2 VGA Display (Front/Back)
Mounting Hardware	Included
Dimensions	Height: 42.8 mm (1.68 in), Width: 482.4 mm (18.99 in) with rack latches, Depth: 677.3 mm (26.66 in) including bezel and redundant power supply units.
Weight	13.8 Kg (30.42 lb)
Hardware Service/Repair	3 Years of Next Business Day On-Site Service (Worldwide); Additional Years available