

## Seamlessly Manage IPv4 and IPv6 Addresses for Transparent Infrastructure Operation

PacketController Networks offers high performance Carrier-Grade NAT (CGNAT) solutions with protocol translation that enables service providers and enterprise to transparently support and interoperate IPv4 and IPv6 devices and content.

It provides carrier-grade scalability by offering a very high number of IP address translations, very fast NAT translation setup rates, high throughput, and high-speed logging.

The PacketController C400 is a 2RU dual-power appliance for 400G networks with available license at 400Gbps and 520Gbps and provides a cost-effective yet powerful solution for large size ISPs.

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### Conserve Publicly Routable IPv4 Address Space

Large-scale NAT (LSN), NAT444 or NAT44 let service providers exponentially scale available source addresses, up to a 35-to-1 return on a large-scale NAT (LSN) pool resource.

### NAT for IPv4 and IPv6 Connectivity

A wide range of functionality includes NAT 44, NAT 64, Deterministic NAT, Fixed NAT and DNS 64.

### IPv4 to IPv6 Transition

Transition technologies help bridge the gap between IPv4 and IPv6 networks:

- DS-Lite and Lw4o6: Let IPv4 devices connect to the internet by tunneling their traffic through an IPv6 network.
- 6rd: Does the opposite, enabling IPv6 connectivity over an IPv4 network.
- MAP-T: Translates packets between IPv4 and IPv6 directly using a stateless NAT method, eliminating the need for tunnels.

### High-speed Logging

- Up to 32 logging servers
- Minimize storage needs with customizable session logging

### ***CGNAT Support***

- Carrier-grade NAT (CGN/CGNAT), Large-scale NAT (LSN), NAT444, NAT44
- NAT64/DNS64, 464XLAT, DS-Lite, Lw4o6, 6rd, NAT46, NPTv6, MAP-E, MAP-T
- ALG for FTP, TFTP, RTSP, PPTP, SIP, ESP, H.323, MGCP, ICMP, DNS
- Hairpinning

### ***Networking***

- Layer 2/Layer 3 support
- BGP+
- BGP Multi-path (ECMP)
- IS-IS v4/v6, OSPF v2/v3
- RIP v2/ng
- VLAN (802.1Q, QinQ)
- BFD
- Static routes & path monitoring
- Policy based routing (PBR)
- Link aggregation (802.1AX), LACP
- VXLAN
- NVGRE
- IPv4 NAT/NAPT
- IPv6 NPAT
- ACL
- Port mirroring

### ***Flexible Licensing***

- “Pay-as-you-grow” license on hardware
- From 5Gbps to 520Gbps

### ***Extensibility***

- N+M Clustering (Active-Standby, Active-Active)
- Multitenancy (Partition) Support
- Integrated DDoS Protection

### ***Management/Monitoring***

- Dedicated management port (CLI, Telnet, SSH, WUI)
- Dedicated management routing table
- Dedicated control CPU
- SNMP v1/2/3
- RBAC with AAA (LDAP, Radius, TACACS+ support)
- 802.1ab LLDP
- sFlow/IPFIX/Netflow v9
- Syslog

## C400 Hardware Platform Specification

Available License	
Throughput	400/520 Gbps
Performance	
Throughput	520Gbps
Full TCP CPS	7.5M
Concurrent Sessions	750M
Partitions	512
Hardware Specification	
Processor	2 x Intel 36-core CPU
Memory	512GB
Storage	SSD (2 backup SSDs)
Hardware Acceleration	ASIC
Management Ports	Ethernet Management Port, RJ-45 Console Port
Default Network Interfaces	2 x 1GbE Copper Management
Pluggable Modules	Dual-Port 10GbE Fiber (SFP+) Quad-Port 10GbE Fiber (SFP+) Dual-Port 25GbE Fiber (SFP28) Dual-Port 40GbE Fiber (QSFP+) Dual-Port 100GbE Fiber (QSFP+) Dual-Port 400GbE (QSFP-DD)
Dimensions	500mm(W) x 600 mm(D) x 88mm(H)
Weight	28 kgs
Power Supply	Hot swap Dual Power Supply
Cooling Fan	Hot swap Fans
Rails	Sliding Rails
Operating Environment	Temperature: 0-40 °C (32-104 °F) Humidity: 5% to 95%

All PacketController Hardware Appliances support N+M active-standby/active-active clustering deployment.

The specifications, performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions.