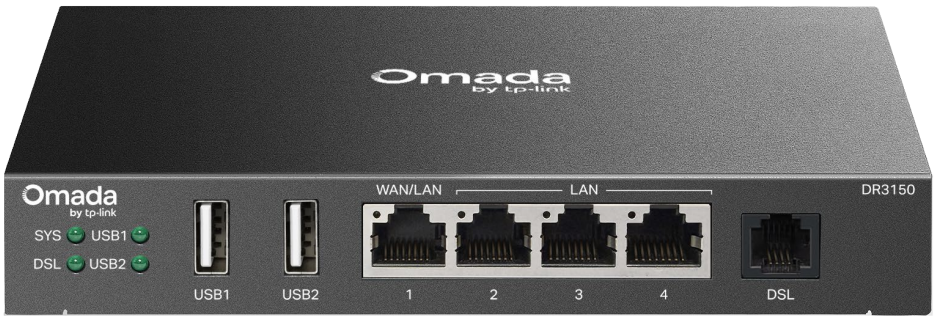
# Omada VPN Gateway | Datasheet

## DR3150

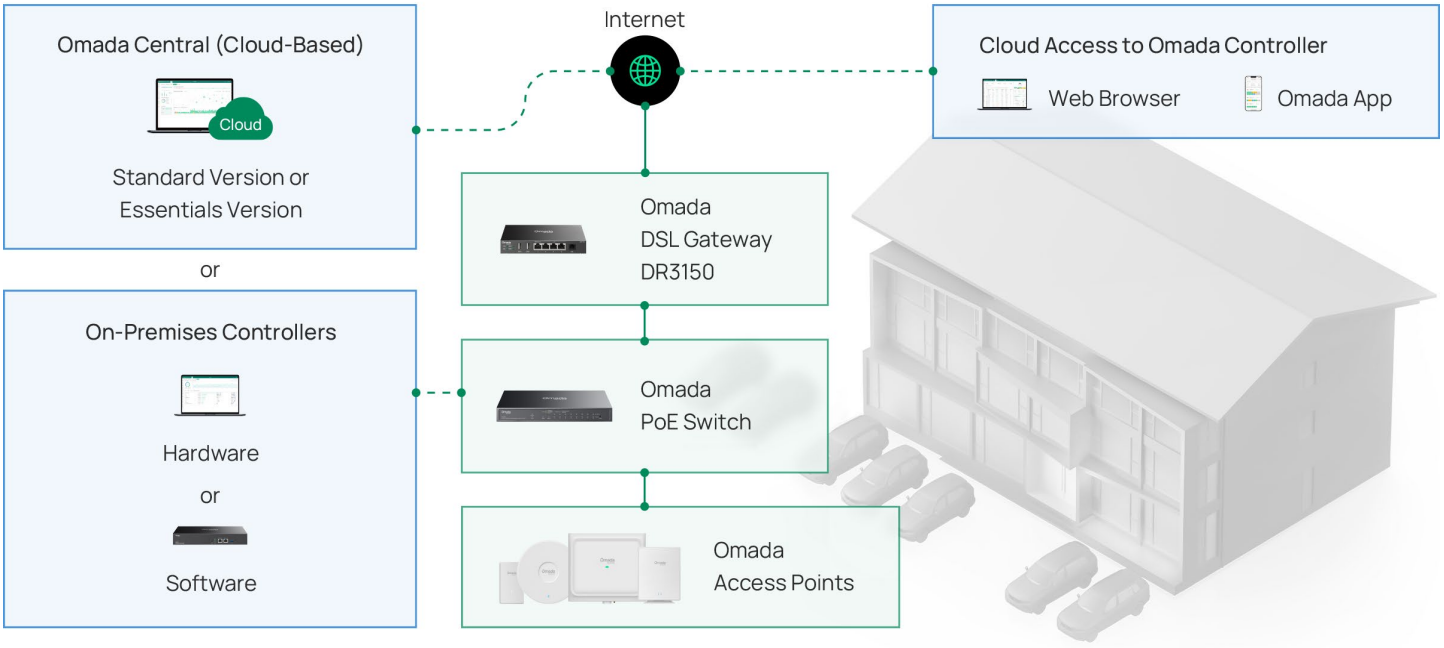
Omada Gigabit Desktop DSL Gateway



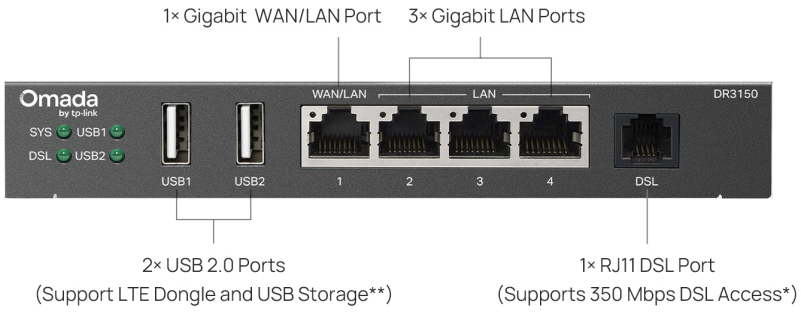

## Highlights

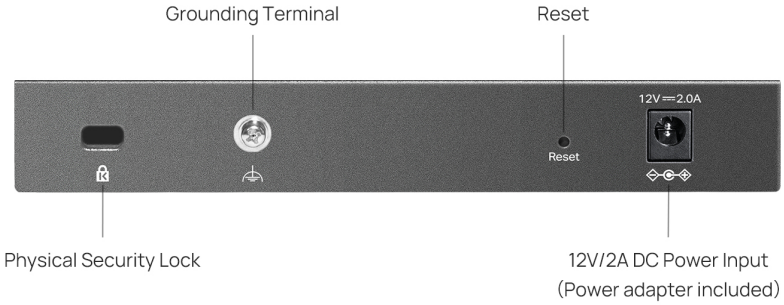
- VDSL2 35b: Supports 350 Mbps DSL Access*
- VDSL2/ADSL2+/ADSL2/ADSL Compatibility
- 1× RJ11 Port & 4× Gigabit RJ45 Ports (1× WAN/LAN, 3× LAN)
- 2× USB 2.0 Ports (Supports USB LTE dongle and USB Storage)
- Load Balancing on up to 2 WAN Ports
- IPSec/PPTP/L2TP/OpenVPN/WireGuard/GRE VPN
- Centralized Cloud Management

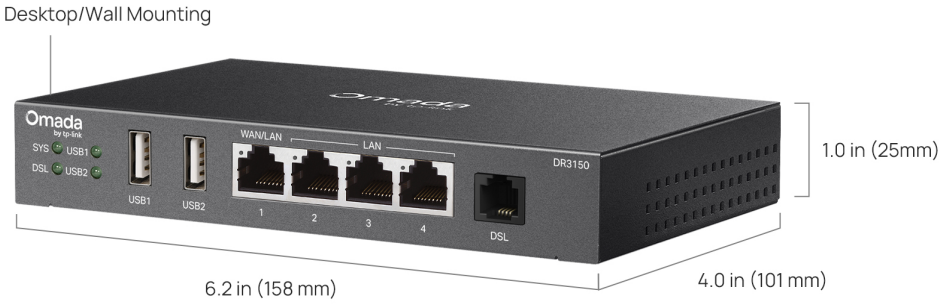
# Omada Solution



# Product Pictures




*Maximum wired signal rates are the physical rates. Actual data throughput is not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors.

**Supports two USB storage devices simultaneously. For LTE backup, only one LTE dongle can be used at a time.

# Specifications

| Model | | DR3150 |
|---|---|---|
| Hardware | Standards and Protocols | IEEE 802.3, IEEE 802.3i, EEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP, HTTPS, DNS, IPSec, PPTP, L2TP, OpenVPN, SNMP, LLDP |
| | Interface | 1 Gigabit WAN/LAN port<br>3 Gigabit LAN ports<br>1 DSL port |
| | USB | 2 USB2.0 (Supports USB LTE dongle and USB Storage[1]) |
| | DSL Standards | VDSL2: ITU G.993.2, ITU-T G.997.1<br>VDSL2 Profile, 8a, 8b, 8c, 8d, 12a, 12b, 17a, 35b<br>ADSL2+:ITU-T G.992.5<br>ADSL2:ITU-T G.992.3<br>ADSL: ITU-T G.992.1(G.dmt), ITU-T G.992.2 (G.lite) |
| | DSL Speed | Up to 350 Mbps |
| | Compatibility | VDSL2/ADSL2+/ADSL2/ADSL |
| | Network Media | 10BASE-T: UTP category 3, 4, 5 cable (Max 100 m)<br>EIA/TIA-568 100Ω STP (Max 100 m)<br>100BASE-TX: UTP category 5, 5e cable (Max 100 m)<br>EIA/TIA-568 100Ω STP (Max 100 m)<br>1000BASE-T: UTP category 5e, 6 cable (Max 100 m) |
| | Button | Reset Button |
| | Power Supply | External 12 V/2 A DC Adapter |
| | Flash | 128 MB NAND |
| | DRAM | 256 MB DDR |
| | LED | SYS, DSL, WAN (Link/Act), LAN (Link/Act), USB1, USB2 |
| | Max Power Consumption | Power adapter not included: 13.44 W<br>Power adapter included: 15.12 W |
| | Mounting | Desktop/Wall |
| | Dimensions ( W x D x H ) | 6.2 × 4.0 × 1.0 in (158 × 101 × 25 mm) |
| | Net Weight | 0.455 Kg |
| | MTBF | 991,396 h@25°C<br>598,718 h@40°C |
| SDN Support | Hardware Controller | Automatic Device Discovery<br>Intelligent Network Monitoring<br>Abnormal Event Warnings<br>Unified Configuration<br>Reboot Schedule<br>Captive Portal Configuration<br>ZTP (Zero-Touch Provisioning)[2] |
| | Software Controller | |

1. Supports two USB storage devices simultaneously. For LTE backup, only one LTE dongle can be used at a time. For compatibility list, visit https://www.omadanetworks.com/omada-router/compatibility/.
2. Zero-Touch Provisioning is supported only when using Omada Cloud-Based Controller.

| Model | | DR3150 |
|---|---|---|
| Performance[1] | Concurrent Session | 50,000 |
| | New Sessions /Second | 2,500 |
| | DPI Throughput | TCP: 995 Mbps; UDP: 762 Mbps |
| | Static IP NAT Throughput | Upload: 945 Mbps; Download: 945 Mbps<br>Bi-Directional: 1802 Mbps |
| | DHCP NAT Throughput | Upload: 945 Mbps; Download: 945 Mbps<br>Bi-Directional: 1814 Mbps |
| | PPPoE NAT Throughput | Upload: 940 Mbps; Download: 940 Mbps<br>Bi-Directional: 1761 Mbps |
| | L2TP NAT Throughput | Upload: 655 Mbps; Download: 417 Mbps<br>Bi-Directional: 458 Mbps |
| | PPTP NAT Throughput | Upload: 703 Mbps; Download: 496 Mbps<br>Bi-Directiona: 652 Mbps |
| | 66 Byte Packet forwarding rate | Upload: 727,679 pps; Download: 598,214 pps |
| | 1518 Byte Packet forwarding rate | Upload: 76,147 pps; Download: 76,555 pps |
| | IPSec VPN Throughput | ESP-SHA1-AES256: 230 Mbps<br>ESP-SHA256-AES256: 233 Mbps<br>ESP-SHA384-AES256: 54 Mbps<br>ESP-SHA512-AES256: 34 Mbps |
| | WireGuard VPN | 66 Mbps |
| | OpenVPN | 15 Mbps |
| | GRE | Unencrypted: 623 Mbps; Encrypted: 205 Mbps |
| | L2TP VPN Throughput | Unencrypted: 433 Mbps; Encrypted: 175 Mbps |
| | PPTP VPN Throughput | Unencrypted: 511 Mbps; Encrypted: 44 Mbps |
| Basic Functions | WAN Connection Type | Static IP<br>Dynamic IP<br>PPPoE (supports MRU Configuration)<br>PPTP<br>L2TP |
| | DHCP | DHCP Server<br>DHCPv6 PD Server (only in Standalone Mode)<br>DHCP Options Customization<br>DHCP Address Reservation<br>Multi-IP Interfaces<br>Multi-Net DHCP<br>WAN DHCP Option 60 |
| | MAC Clone | Modify WAN/LAN MAC Address[2] |
| | IPTV | IGMP v2/v3 Proxy, Custom Mode, Bridge Mode |
| | IPv6 | StaticIP / SLAAC / DHCPv6 / PPPoE / 6to4Tunnel / PassThrough / Non-Address mode |
| | stateful ACL | √ |
| | mDNS Repeater | √ |
| | Quality of Service | √ |
| | Bridge VLAN | √ |
| | VLAN | 802.1Q VLAN |
| | LAN DNS | √ |

1. Rated specifications are based on test results using the specific software. Device performance may vary as a result of the actual scenario.
2. LAN MAC Address can be modified only in Standalone Mode.

| Model | | DR3150 |
|---|---|---|
| Transmission | Load Balance | Intelligent Load Balance<br>Application Optimized Routing<br>Link Backup (Timing, Failover)<br>Online Detection |
| | NAT | One-to-One NAT<br>Multi-Net NAT<br>Port Forwarding<br>Port Triggering[1]<br>NAT-DMZ<br>FTP/H.323/SIP/IPSec/PPTP ALG<br>UPnP<br>Disable NAT |
| | Routing | Static Routing<br>Policy Routing<br>RIP[1]<br>OSPF[1] |
| | Session Limit | IP-based Session Limit |
| | Bandwidth Control | IP-based Bandwidth Control |
| VPN | IPSec VPN | 20 IPSec VPN Tunnels<br>LAN-to-LAN, Client-to-LAN<br>Main, Aggressive Negotiation Mode<br>DES, 3DES, AES128, AES192, AES256 Encryption Algorithm<br>IPsec Failover<br>IKE v1/v2<br>MD5, SHA1, SHA2-384 and SHA2-512 Authentication Algorithm<br>NAT Traversal (NAT-T)<br>Dead Peer Detection (DPD)<br>Perfect Forward Secrecy (PFS) |
| | PPTP VPN | PPTP VPN Server<br>PPTP VPN Client (10)[2]<br>16 Tunnels<br>PPTP with MPPE Encryption |
| | L2TP VPN | L2TP VPN Server<br>L2TP VPN Client (10)[2]<br>16 Tunnels<br>L2TP over IPSec |
| | GRE | √ (Only in Standalone Mode) |
| | SD-WAN | √ (Only in Contoller Mode) |
| | WireGuard VPN | √ |
| | OpenVPN | OpenVPN Server<br>OpenVPN Client (10)[2]<br>50 OpenVPN Tunnels<br>"Certificate + Account" Mode<br>Full Mode |

1. Port Triggering, RIP, and OSPF are supported only in Standalone Mode.
2. DR3150 can work as a VPN client and can connect with up to 10 VPN servers.

| Model | | DR3150 |
|---|---|---|
| Security | Attack Defense | TCP/UDP/ICMP Flood Defense<br>Block TCP Scan (Stealth FIN/Xmas/Null)<br>Block Ping from WAN |
| | Filtering | Web Group Filtering[1]<br>URL Filtering<br>Web Security[1] |
| | DNS Proxy | DNSSEC, DoH, DoT, DNS Override |
| | ARP Inspection | Sending GARP Packets[1]<br>ARP Scanning[1]<br>IP-MAC Binding<br>ARP Detection |
| | Access Control | Source/Destination IP Based ACL<br>Stateful ACL<br>IPv4/IPv6 ACL<br>National Based ACL<br>FQDN |
| | DPI | Deep Packet Inspection<br>Support 2466 type Applications |
| Authentication | Web Authentication | No Authentication<br>Simple Password<br>Hotspot (Local User / Voucher[2] / SMS[2] / Radius[2])<br>External Radius Sever<br>External Portal Sever[2]<br>LDAP[3] |
| Management | Service | Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe, DDNS Customization) |
| | Maintenance | Web Management Interface<br>Remote Management<br>Export & Import Configuration<br>SNMP v1/v2c/v3<br>Diagnostics (Ping & Traceroute)<br>NTP Synchronize[4]<br>Port Mirroring<br>CLI (only in Standalone Mode)<br>Syslog Support<br>TR-069 (data models of TR-098 and TR-181 are supported) |
| Others | Certification | CE, FCC |
| | Package Contents | DR3150, Power Adapter, Ethernet Cable, Phone Cable, External Splitter, Non-Slip Feet, Quick Installation Guide |
| | System Requirements | Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7/8/8.1/10<br>MAC OS, NetWare, UNIX or Linux |
| | Environment | Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)<br>Storage Temperature: -40 °C to 70 °C (-40 °F to 158 °F)<br>Operating Humidity: 10% to 90% non-condensing<br>Storage Humidity: 5% to 90% non-condensing |

1. Web Group Filtering, Web Security, Sending GARP Packets, and ARP Scanning are supported only in Standalone Mode.
2. The following web authentication methods are supported only in Controller Mode: Voucher, SMS, Radius, and External Portal Sever.
3. LDAP is supported only in Standalone Mode.
4. NTP Synchronize is supported only in Standalone Mode.

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*Some models featured in this guide may be unavailable in your country or region. Visit the website for local sales information: www.omadanetworks.com.

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