

# OmniSwitch 6250

LAN STACKABLE LAN SWITCH

The Alcatel-Lucent OmniSwitch™ 6250 Stackable Fast Ethernet Switch is a Layer 2+ LAN family of switches for both the enterprise and Ethernet access segments. Enterprise models address the small and medium-sized enterprise edge and branch office environments, while the metro models address the residential and business Ethernet access supplied by service providers.



## OVERVIEW

The Alcatel-Lucent OmniSwitch 6250 Stackable Fast Ethernet Switch is a Layer 2+ LAN family of switches for both the enterprise and Ethernet access segments. Enterprise models address the small and medium-sized enterprise edge and branch office environments, while the metro models address the residential and business Ethernet access supplied by service providers.

With an optimized design for flexibility and scalability as well as low power consumption, the OmniSwitch

6250 runs on the field-proven Alcatel-Lucent Operating System (AOS), providing an outstanding edge solution for highly available, self-protective, easily managed and eco-friendly networks.

The OmniSwitch 6250 family is an evolution of the current Alcatel-Lucent OmniStack™ 6200 Stackable LAN Switch family, embedding the latest technology and AOS innovations.

Solutions benefiting from the OmniSwitch 6250 family of switches are:

- Edge of small to medium-sized networks
- Branch office enterprise workgroups
- Residential and commercial managed services applications

## KEY BENEFITS

- Provides simplified selection with only two enterprise models (PoE and non-PoE) which reduces sparing and inventory costs and allows for any mix of Power over Ethernet (PoE) and non-PoE, up to 192 ports
- Small form factor and low noise output make the OmniSwitch 6250 ideal for collocation environments. The low power consumption reduces OPEX and cooling costs, resulting in faster ROI.
- Leads the industry in price/feature performance ratio and offers customers a cost-effective network technology upgrade without the necessity of moving to a higher priced Layer 2+ gigabit solution.
- Provides outstanding features and performance for supporting scalable, real-time voice, data and video applications for converged networks.
- Allows existing AOS customers/users immediate familiarity with the product from day one, reducing their TCO and training costs. New users may choose the method of switch access most beneficial to their needs.
- Lifetime warranty eliminates service program costs and ongoing service renewals, lowering TCO and allowing customers to reach ROI targets more quickly.

## KEY FEATURES

### GENERAL FEATURES

- Innovative models with half-rack width for greater variety of switch combinations
- Highly efficient and optimized in their form factor, power consumption and acoustic output
- Developed to satisfy customer requests for a feature-rich, cost-effective, 10/100 stackable switch built on the latest technologies
- AOS-based, field-proven software with management through web interface (WebView), command line interface (CLI) and Simple Network Management Protocol (SNMP)
- Supported by Alcatel-Lucent OmniVista™ 2500 Network Management System (NMS) and Alcatel-Lucent 5620 Service Aware Manager (SAM) applications for service providers

### SECURITY FEATURES

- Auto-sensing network access control (NAC) through the Alcatel-Lucent Access Guardian framework (multi-client/VLAN 802.1X, MAC, rules)
- Advanced QoS and access control lists (ACLs) for traffic control, including an embedded denial of service (DoS) engine to filter out unwanted traffic attacks
- Web-based authentication (captive portal)

### PERFORMANCE AND REDUNDANCY FEATURES

- Advanced Layer 2+ features with basic Layer 3 routing for both IPv4 and IPv6 wire-rate switching and routing performance
- High availability with virtual chassis concept, redundant stacking links, primary/secondary unit failover, hot swappable power options and configuration rollback

### FEATURES FOR RESIDENTIAL AND BUSINESS ETHERNET ACCESS SERVICES

- Ethernet services: VLAN stacking, SVLAN, CVLAN
- Ethernet OA&M (ITU-T Y.1731 and IEEE 802.1ag [v8.1]) for management and troubleshooting
- TR-101 PPPoE Intermediate Agent allowing for the Point-to-Point Protocol over Ethernet (PPPoE) network access method
- MAC-forced forwarding support according to RFC 4562
- Embedded Customer Provider Edge (CPE) Test Head traffic generator and analyzer tool to validate the customer SLAs
- Layer 2 Protocol Tunneling (L2PT)
- Service Assurance Agent (SAA) including: L2, IP, ETH-LB, and ETH-DMM
- ITU-T G.8032 Ethernet Ring Protection (ERP)
- Zero touch auto-configuration through Dynamic Host Configuration Protocol (DHCP) services
- Extensive QoS capability guarantees delivery: Tri-color marking, flow (policy)-based and port-based bandwidth management for both ingress rate limiting and/or egress rate shaping
- IPTV multicast for video services delivery
- Metro edge security features (private VLAN, DHCP and Internet Group Management Protocol [IGMP] snooping, Access Guardian) for traffic containment
- Supported by industry-leading Alcatel-Lucent 5620 SAM
- Compliant with MEF 9 and 14

### FEATURES FOR SMALL TO MEDIUM-SIZED ENTERPRISE EDGE, BRANCH OR SMALL BUSINESS SCENARIOS

- Feature-rich Fast Ethernet switches at the LAN edge where gigabit speed is not required
- Very flexible media options with PoE and non-PoE
- Two combo ports on each unit, individually configurable for connectivity to servers, aggregating switches or data centers
- Scalable up to 192 10/100 and 16GigE ports per 4 RU rack space
- Highly optimized in their form factor and acoustic output for collocation environments
- Wire-speed Layer 2+ and basic Layer 3 switching
- Intelligent, secure and available networking for demanding applications

## TECHNICAL INFORMATION

Standard models	Fast Ethernet RJ-45 ports	Column Heading	GigE combo ports**	2.5G stacking ports	PoE power-budget	Main power supply	Optional backup PSU	Height rack units
<a href="#">OmniSwitch 6250-24</a>	24	0	2	2	NA	AC	AC or DC	1
Power over Ethernet plus (PoE+) models	Fast Ethernet RJ-45 ports	Column Heading	GigE combo ports**	2.5G stacking ports	PoE power-budget	Main power supply	Optional backup PSU	Height rack units
<a href="#">OmniSwitch 6250-P24</a>	24	0	2	2	180 W	AC	AC	1
Metro Ethernet models	Fast Ethernet RJ-45 ports	Column Heading	GigE combo ports**	2.5G stacking ports	PoE power-budget	Main power supply	Optional backup PSU	Height rack units
<a href="#">OmniSwitch 6250-8M</a>	8	2*	2	0	NA	AC	NA	1
<a href="#">OmniSwitch 6250-24M</a>	24	2*	2	0	NA	AC	AC or DC	1
<a href="#">OmniSwitch 6250-24MD</a>	24	2*	2	0	NA	DC	AC or DC	1

Remarks:

\*SFP ports can be used for transceiver or 2.5G stacking.

\*\*Supports both gigabit and Fast Ethernet transceivers

NA - not available