Alcatel-Lucent OmniSwitch 6250

STACKABLE FAST ETHERNET LAN SWITCH FAMILY

The Alcatel-Lucent® OmniSwitch™ 6250 is a new Value Layer 2+ Fast Ethernet Stackable 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 the field-proven Alcatel-Lucent Operating Software (AOS), providing an outstanding edge solution for highly available, self-protective, easily managed and eco-friendly networks.

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

Solutions benefiting from the OmniSwitch 6250 family of switches are:
   • Edge of small-to-mid-sized networks
   • Branch office enterprise workgroups
   • Residential/Metro Ethernet triple-play applications

OmniSwitch 6250- 8M

OmniSwitch 6250- 24/P24/24M/24MD

FEATURES	BENEFITS
The OmniSwitch 6250 Value Fast Ethernet Stackable offers **innovative half-rack wide models** for a great variety of switch combination deployments.	Product family provides **simplified selection** with only two enterprise models (non-PoE & PoE): - reduces sparing and inventory costs - created any non-PoE, PoE mix up to 416 ports
The OmniSwitch 6250 **are highly efficient and optimized** in their form factor, power consumption and acoustic output.	The small form factor and low noise output makes the OmniSwitch 6250 ideal for co-location environments. The **low power consumption** reduces device operating expense and cooling costs, lowering operational expenditures resulting in faster return on investment.
Developed to satisfy customers request for **feature rich, cost effective 10/100 stackable** switch built on the latest technologies.	The OmniSwitch 6250 leads the industry in **price/feature-performance ratio** and offers customers a costs-efficient network technology upgrade without being forced to move to a higher priced Layer2+ Gigabit solution.
Feature rich services incorporated in the OS: - integrated security including Access Guardian, 802.1x and captive portal - Alcatel-Lucent's virtual chassis design provides resiliency and 5G performance - quality of service (QoS) and static, RIP routing and IPv6	**Outstanding list of features** and performance for supporting scalable real-time voice, data, and video applications for converged networks.
The OmniSwitch 6250 family runs the same **Alcatel-Lucent Operating System (AOS)** as the other OmniSwitch products and is fully manageable via Alcatel-Lucent's CLI, WebView browser, OmniVista™ as well as Alcatel-Lucent 5620 Service Aware Manager.(*)	Existing AOS customers/users are immediately familiar with the product from day one, **reducing their ownership and training costs**. New users may choose from one of the several methods of switch access most beneficial to their needs.
Limited Lifetime Warranty Software and Hardware Support **included.**	Lifetime Warranty **eliminates service program costs** and ongoing service renewals, lowering total cost of ownership and allowing customers to reach ROI targets more quickly.

Alcatel-Lucent OmniSwitch 6250 Models

All models in the Alcatel-Lucent OmniSwitch 6250 family are stackable, half rack width (8.5 inches/21.59 cm), fixed configuration chassis in a 1U form factor and offers a variety of PoE (enterprise) and non-PoE (enterprise and metro) models. They can be optionally equipped with Alcatel-Lucent approved pluggable SFP transceivers supporting short, long and very long distances.

Table 1 indicates the OmniSwitch 6250 models available.

Enterprise Models

Chassis	10/100 ports	Gig Combo ports	HDMI stacking Ports (2.5 Gbps)	Power Supply supported	Backup Power Supply Supported
Non-PoE Models					
OS6250-24	24	2	2	Internal AC supply	External AC brick supply
PoE Models					
OS6250-P24	24	2	2	225W External AC supply	225W External AC supply

OmniSwitch 6250-P24 supports 30 W per port PoE (complies with both IEEE 802.3af and 802.3at standards).

Metro Models

Chassis	10/100 ports	10/100/1000 combo ports	SFP Uplink (gigabit) SFP Stacking (2.5 Gbps)	Power Supply supported	Backup Power Supply Supported
OS6250-8M	8	2	2	Internal AC supply	N/A
OS6250-24M	24	2	2	Internal AC supply	External AC brick supply
OS6250-24MD	24	2	2	Internal DC supply	External DC supply

OmniSwitch 6250 metro models support additional metro software features outlined later in this document.

- Combo ports:
  - RJ45 combo port configurable to be RJ10/100/1000Base-T
  - SFP combo port supporting 100/1000Base-X transceivers for short, long and very long distances.
- SFP fiber interfaces on M models support only Gigabit SFP transceivers.

Technical Specification	Enterprise Models		Metro Models		
PORT	**OS6250-24**	**OS6250-P24**	**OS6250-8M**	**OS6250-24M**	**OS6250-24MD**
RJ45 100/100 ports	24	24	8	24	24
RJ45/SFP 10/100/1000 combo ports	2	2	2	2	2
HDMI stacking ports	2	2	0	0	0
SFP uplink/stacking ports	0	0	2	2	2
PoE ports	0	24 FE or 22 FE + 2 GE	0	0	0
Max unit per stack	8*	8*	2	2	2

*16 units available in future software release

DIMENSIONS	OS6250-24	OS6250-P24	OS6250-8M	OS6250-24M	OS6250-24MD
Switch width	8.50 in (21.5 cm)	8.50 in (21.5 cm)	8.50 in (21.5 cm)	8.50 in (21.5 cm)	8.50 in (21.5 cm)
Switch height	1.73 in (4.4 cm)	1.73 in (4.4 cm)	1.73 in (4.4 cm)	1.73 in (4.4 cm)	1.73 in (4.4 cm)
Switch depth (no PS shelf attached)	11.5 in. (29.21 cm)	11.5 in. (29.21 cm)	11.5 in. (29.21 cm)	11.5 in. (29.21 cm)	11.5 in. (29.21 cm)
Switch depth (with PS shelf attached)	18.88 in (47.6 cm)	18.88 in (47.6 cm)	N/A	18.88 in (47.6 cm)	18.88 in (47.6 cm)
Switch weight (*no PS)	3.80 lb (1.72 kg)	4.20 lb (1.91 kg)*	3.80 lb (1.72 kg)	3.80 lb (1.72 kg)	3.80 lb (1.72 kg)
Switch tray weight	1.35 lb (0.61 kg)	1.35 lb (0.61 kg)	1.35 lb (0.61 kg)	1.35 lb (0.61 kg)	1.35 lb (0.61 kg)

Wire Rate Performance	OS6250-24	OS6250-P24	OS6250-8M	OS6250-24M	OS6250-24MD
Raw switch capacity: (Full Duplex/Aggregated)	12.4 Gbps/ 24.8 Gbps	12.4 Gbps/ 24.8 Gbps	10.8 Gbps/ 21.6Gbps	12.4 Gbps/ 24.8 Gbps	12.4 Gbps/ 24.8 Gbps
Throughput no stacking @ Aggregated	13 Mpps @ 8.8 Gbps	13 Mpps @ 8.8 Gbps	14.3 Mpps @ 9.6 Gbps	19 Mpps @ 12.8 Gbps	19 Mpps @ 12.8 Gbps
Throughput with stacking @ Aggregated	28 Mpps @ 18.8 Gbps	28 Mpps @ 18.8 Gbps	23.2 Mpps @ 15.6 Gbps	28 Mpps @ 18.8 Gbps	28 Mpps @ 18.8 Gbps
Stacking capacity (Full Duplex/Aggregated)	5 Gbps/ 10 Gbps	5 Gbps/ 10 Gbps	5 Gbps/ 10 Gbps	5 Gbps/ 10 Gbps	5 Gbps/ 10 Gbps

OPERATING CONDITIONS	OS6250-24	OS6250-P24	OS6250-8M	OS6250-24M	OS6250-24MD
Operating temperature	0°C to +45°C 32°F to +113°F	0°C to +45°C 32°F to +113°F	0°C to +45°C 32°F to +113°F	0°C to +45°C 32°F to +113°F	0°C to +45°C 32°F to +113°F
Storage temperature	-40°C to +75°C -40°F to +167°F	-40°C to +75°C -40°F to +167°F	-40°C to +75°C -40°F to +167°F	-40°C to +75°C -40°F to +167°F	-40°C to +75°C -40°F to +167°F
Humidity (operating and storage)	5% - 95%	5% - 95%	5% - 95%	5% - 95%	5% - 95%
MTBF (hours)	268,730	189,585	290,108	268,698	268,715
Fan less design	Yes	1 fan	Yes	Yes	Yes
Acoustic (dB) – all fans on*	silent	< 35db(A)	silent	silent	silent
System power consumption (watts)**	17.40 W	24.90 W	12.80 W	16.20 W	15.89 W
Heat dissipation (BTU) ***	59	85	44	55	54

* Acoustic Levels measured with a single power supply at room temperature
** Power consumption of the OS6250 PoE model is tested under fully loaded traffic conditions using a 225W PoE supply
*** Power consumption measured under fully loaded traffic conditions

OS6250 Backup Supplies and Specifications
Backup power supplies for OS6250-24 and OS6250-24MD models come in the form of a power brick in either AC or DC variant respectively and may be mounted to the rear of the chassis using the power shelf with securing brackets. All necessary parts are included in the back power supply kits.

The OS6250-P24 external 225W supply acts as both the primary or redundant supply. The primary supply/tray combination directly attach to the rear of the chassis. The redundant supply/tray combination mounts to the side of the switch and attaches using remote cable.

	Backup Power Supply Model		
SPECIFICATION	OS6250-BP	OS6250-BP-D	OS6250-BP-P
Style	Brick	Brick	Framed
Internal/External	External	External	External
Input voltage	90-220V AC	36-72V DC	90-220V AC
Output voltage	12V DC	12V DC	12V DC/54V DC
Wattage	42W	30W	225W
PoE power budget	N/A	N/A	180W
Weight	0.45 lb (0.21 kg)	0.55 lb (0.25 kg)	2.30 lb (1.04 kg)

Power supply shelf:
The power supply shelf holds one brick or PoE style backup power supply and mounts to the rear of the unit. Any backup power supply and shelf may be mounted in a side-by-side configuration to the switch using the supplied mounting ears. This feature allows for space sensitive installations requiring reduced-depth (for example, in a wall-mounted cabinet).

Indicators

System LEDs

- System (OK) (chassis HW/SW status)
- PWR (primary power supply status)
- PRI (virtual chassis primary)
- BPS (backup power status)
- STK (stacking indicator for metro models)
- Switch ID via port LED indicates the stack ID of the unit in the stack: 1 to 8

Per-port LEDs

- 10/100/1000: PoE, link/activity
- SFP: link/activity
- Stacking: link/activity

Compliance and certifications

Commercial

EMI/EMC

- FCC CRF Title 47 Subpart B (Class A limits. Note: Class A with UTP cables)
- VCCI (Class A limits. Note: Class A with UTP cables)
- AS/NZS 3548 (Class A limits. Note: Class A with UTP cables)
- CE marking for European countries (Class A Note: Class A with UTP cables)
- EN 55022: 2006 (Emission Standard)
- EN 61000-3-3: 1995
- EN 61000-3-2: 2006

- EN 55024: 1998 (Immunity Standards)
  - ¬ EN 61000-4-2: 1995+A1: 1998
  - ¬ EN 61000-4-3: 1996+A1: 1998
  - ¬ EN 61000-4-4: 1995
  - ¬ EN 61000-4-5: 1995
  - ¬ EN 61000-4-6: 1996
  - ¬ EN 61000-4-8: 1994
  - ¬ EN 61000-4-11: 1994
- IEEE802.3: Hi-Pot Test (2250 V DC on all Ethernet ports)

Safety agency certifications

- US UL 60950

- IEC 60950-1:2001; all national deviations
- EN 60950-1: 2001; all deviations
- CAN/CSA-C22.2 No. 60950-1-03
- NOM-019 SCFI, Mexico
- AS/NZ TS-001 and 60950:2000, Australia
- UL-AR, Argentina
- UL-GS Mark, Germany
- EN 60825-1 Laser, EN 60825-2 Laser
- CDRH Laser

Detailed Product Features

Simplified Management

Management interfaces

- Intuitive Alcatel-Lucent CLI with familiar interface reducing training costs
- Easy to use, point-and-click web based element manager (WebView) with built-in help for easy configuration
- Integration with Alcatel-Lucent OmniVista for network management
- Full configuration and reporting using SNMPv1/2/3 across all OmniSwitch families to facilitate third party NMS integration
- Remote Telnet management or Secure Shell access using SSH
- File upload using TFTP, FTP, SFTP, or SCP for faster configuration
- Human-readable ASCII-based config files for off-line editing and bulk configuration
- Managed by Alcatel-Lucent 5620 Service Aware Manager(*)

Monitoring and Troubleshooting

- Local (on the flash) and remote server logging: Syslog and command log
- Port based mirroring for troubleshooting and lawful interception, supports four sessions with multiple sources-to-one destination
- Policy based mirroring - Allows selection of the type of traffic to mirror by using QoS policies(*)
- Remote port mirroring that facilitates passing mirrored traffic through the network to a remotely connected device.
- Port monitoring feature that allows capture of Ethernet packets to a file, or for on-screen display to assist in troubleshooting

- sFlow v5 and RMON: for advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- IP tools: ping and traceroute

Network configuration

- Auto-negotiating 10/100/1000 ports automatically configure port speed and duplex setting
- Auto MDI/MDIX automatically configures transmit and receive signals to support straight through and crossover cabling
- BootP/DHCP client allows auto-config of switch IP information for simplified deployment
- DHCP relay to forward client requests to a DHCP server
- Alcatel-Lucent Mapping Adjacency Protocol (AMAP) for building topology maps
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP) with MED extensions for automated device discovery
- GARP VLAN Registration Protocol (GVRP) for 802.1Q-compliant VLAN pruning and dynamic VLAN creation
- Auto QoS for switch management traffic as well as traffic from Alcatel-Lucent IP phones
- Network Time Protocol (NTP) for network wide time synchronization
- Stackable to 8 units (*16 units-check availability)

Resiliency and high availability

- Ring Rapid Spanning Tree (RRSTP) optimized for ring topology to provide less than 100ms convergence time
- IEEE 802.1s Multiple Spanning Tree Protocol: encompasses IEEE 802.1D STP and IEEE 802.1w Rapid Spanning Tree Protocol
- Per-VLAN spanning tree (PVST) and Alcatel-Lucent 1x1 STP mode
- IEEE 802.3ad Link Aggregation Control Protocol (LACP) and static LAG groups across modules is supported

- Broadcast and multicast storm control to avoid degradation in overall system performance
- Uni-Directional Link Detection (UDLD): detects and disables unidirectional links on fiber optic interfaces.
- Redundant and hot-swappable power supplies, transceivers modules offering uninterruptable service
- Dual image and dual configuration files storage provides backup

Advanced Security

Access control
- AOS Access Guardian framework for comprehensive user policy based Network Access Control (NAC)(*)
- Autosensing 802.1X multi-client, multi-VLAN
- MAC based authentication for non-802.1x hosts
- Web based authentication (Captive Portal) – A customizable web portal residing on the switch that can be used for authenticating supplicants as well as non-supplicants.
- Group mobility rules and "guest" VLAN support
- The host integrity check (HIC) agent on each switch makes it a HIC enforcer and facilitates endpoint device control for company policy compliance; quarantine and remediation are supported as required.(*)
- User Network Profile (UNP) – simplify NAC management and control by dynamically providing pre-defined policy configuration to authenticated clients—VLAN, ACL, BW, HIC
- SSH for secure CLI session with PKI support
- Centralized RADIUS and LDAP user authentication

Containment, monitoring and quarantine
- Support for Alcatel-Lucent Quarantine Manager and quarantine VLAN(*)
- Learned Port Security (LPS) or MAC address lockdown - secures the network access on user or trunk ports based on MAC address
- DHCP Snooping, DHCP IP Spoof protection
- TACACS+ client allows for authentication authorization and accounting with a remote TACACS+ server
- Dynamic ARP protection and ARP poisoning detection
- Access control lists to filter out unwanted traffic including denial of service attacks; Flow based filtering in hardware (L1-L4)
- BPDU blocking – automatically shuts down user ports if a STP BPDU packet is seen to prevent topology loops
- STP Root Guard - prevents edge devices from becoming Spanning Tree Protocol root node

Converged Networks

PoE
- The PoE models support Alcatel-Lucent IP phones and WLAN access points, as well as any IEEE 802.3af or IEEE 802.3at compliant end device.
- Configurable per port PoE priority and max power for power allocation
- Dynamic PoE allocation, delivers only the power needed by the PD up to the total power budget for most efficient power consumption.

QoS
- Priority queues: eight hardware-based queues per port for flexible QoS management
- Traffic prioritization: Flow-based QoS with internal and external (a.k.a., remarking) prioritization

- Bandwidth management: flow based bandwidth management, ingress rate limiting; egress rate shaping per port
- Queue management: configurable scheduling algorithm: Strict Priority (SQP), Weighted Round Robin (WRR) and Deficit Round Robin (DRR)
- Congestion avoidance: Support for End to End Head-Of-Line (E2E-HOL) Blocking Protection
- Auto QoS for switch management traffic as well as traffic from Alcatel-Lucent IP phones
- Three Color marker - Single/Dual Rate – policing with Commit BW, Excess BW, Burst size

L2, L3 Routing and Multicast

L2 Switching
- Up to 16,000 MACs
- Up to 4000 VLANs
- Up to 2k ACLs
- Latency: < 4 μseconds

IPv4 and IPv6
- Static routing for IPv4 and IPv6
- RIP v1 & v2 for IPv4, RIPng for IPv6
- Up to 256 IPv4/ 128 IPv6 static and RIP routes.
- Up to 128 IPv4 and 16 IPv6 interfaces

Multicast
- IGMPv1/v2/v3 snooping to optimize multicast traffic
- MLD snooping
- Up to 1000 multicast groups/stack
- IP Multicast VLAN (IPMVLAN) for optimized multicast replication at the edge saving network core resources

Network protocols
- DHCP relay (including generic UDP relay)
- ARP
- Dynamic Host Configuration Protocol (DHCP) relay
- DHCP relay to forward client requests to a DHCP server
- Generic User Datagram Protocol (UDP) relay per VLAN
- DHCP Option 82 – configurable relay agent information

Metro Ethernet Access *(software features available on the M models)*

- Ethernet services support per IEEE 802.1ad Provider Bridge
  - ¬ Transparent LAN Services with Service VLAN (SVLAN) and Customer VLAN (CVLAN) concept
  - ¬ Ethernet network-to-network interface (NNI) and user network interface (UNI) services
  - ¬ Service Access Point (SAP) profile identification
  - ¬ CVLAN to SVLAN translation and mapping
- IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (L2 ping and link trace)
- Ethernet OAM compliant with IEEE 802.3ah
- Uni-Directional Link Detection (UDLD): detects and disables unidirectional links on fiber optic interfaces.

- ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies(*).
- Private VLAN feature for user traffic segregation
- Port loopback detection for preventing customer loops on ethernet access ports.
- DHCP Option 82 – configurable relay agent information
- IP Multicast VLAN (IPMVLAN) for optimized multicast replication at the edge saving network core resources
- Three Color marker - Single/Dual Rate – policing with Commit BW, Excess BW, Burst size
- MEF 9 and 14 certified(*)
- Managed by Alcatel-Lucent 5620 Service Aware Manager(*)

Supported Standards

IEEE Standards
- IEEE 802.1D (STP)
- IEEE 802.1p (CoS)
- IEEE 802.1Q (VLANs)
- IEEE 802.1ad (Provider Bridge) Q-in-Q (VLAN stacking)
- IEEE 802.1ag (Connectivity Fault Management)
- IEEE 802.1s (MSTP)
- IEEE 802.1w (RSTP)
- IEEE 802.1X (Port Based Network Access Protocol)
- IEEE 802.3i (10BaseT)
- IEEE 802.3u (Fast Ethernet)
- IEEE 802.3x (Flow Control)
- IEEE 802.3z (Gigabit Ethernet)
- IEEE 802.3ab (1000BaseT)
- IEEE 802.3ac (VLAN Tagging)
- IEEE 802.3ad (Link Aggregation)
- IEEE 802.3af (Power-over-Ethernet)
- IEEE 802.3at (Power-over-Ethernet)
- IEEE 802.ah (Ethernet first mile)

ITU-T Standards
- ITU-T G.8032: Draft (June 2007) Ethernet Ring Protection(*)

IETF Standards

IPv4
- RFC 2003 IP/IP tunneling
- RFC 2784 GRE tunneling

RIP
- RFC 1058 RIP v1
- RFC 1722/1723/2453/1724 RIP v2 and MIB
- RFC 1812/2644 IPv4 Router Requirement
- RFC 2080 RIPng for IPv6

IP Multicast
- RFC 1112 IGMP v1
- RFC 2236/2933 IGMP v2 and MIB

- RFC 2365 Multicast
- RFC 3376 IGMPv3 for IPv6

IPv6
- RFC 1886 DNS for IPv6
- RFC 2292/2373/2374/2460/2462
- RFC 2461 NDP
- RFC 2463/2466 ICMP v6 and MIB
- RFC 2452/2454 IPv6 TCP/UDP MIB
- RFC 2464/2553/2893/3493/3513
- RFC 3056 IPv6 Tunneling
- RFC 3542/3587 IPv6
- RFC 4007 IPv6 Scoped Address Architecture
- RFC 4193 Unique Local IPv6 Unicast Addresses

Manageability
- RFC 1350 TFTP Protocol
- RFC 854/855 Telnet and Telnet options
- RFC 1155/2578-2580 SMI v1 and SMI v2
- RFC 1157/2271 SNMP
- RFC 1212/2737 MIB and MIB-II
- RFC 1213/2011-2013 SNMP v2 MIB
- RFC 1215 Convention for SNMP Traps
- RFC 1573/2233/2863 Private Interface MIB
- RFC 1643/2665 Ethernet MIB
- RFC 1901-1908/3416-3418 SNMP v2c
- RFC 2096 IP MIB
- RFC 2570-2576/3411-3415 SNMP v3
- RFC3414 User based Security model
- RFC 2616 /2854 HTTP and HTML
- RFC 2667 IP Tunneling MIB
- RFC 2668/3636 IEEE 802.3 MAU MIB
- RFC 2674 VLAN MIB
- RFC 4251 Secure Shell Protocol architecture
- RFC 4252 The Secure Shell (SSH) Authentication Protocol
- RFC 959/2640 FTP

Security
- RFC 1321 MD5

- RFC 2104 HMAC Message Authentication
- RFC 2138/2865/2868/3575/2618 RADIUS Authentication and Client MIB
- RFC 2139/2866/2867/2620 RADIUS Accounting and Client MIB
- RFC 2228 step
- RFC 2284 PPP EAP
- RFC 2869/2869bis RADIUS Extension

Quality of Services
- RFC 896 Congestion control
- RFC 1122 Internet Hosts
- RFC 2474/2475/2597/3168/3246 DiffServ
- RFC 3635 Pause Control

Others
- RFC 791/894/1024/1349 IP and IP / Ethernet
- RFC 792 ICMP
- RFC 768 UDP
- RFC 793/1156 TCP/IP and MIB
- RFC 826/903 ARP and Reverse ARP
- RFC 919/922 Broadcasting internet datagram
- RFC 925/1027 Multi LAN ARP / Proxy ARP
- RFC 950 Sub-netting
- RFC 951 Bootp
- RFC 1151 RDP
- RFC 1191 Path MTU Discovery
- RFC 1256 ICMP Router Discovery
- RFC 1305/2030 NTP v3 and Simple NTP
- RFC 1493 Bridge MIB
- RFC 1518/1519 CIDR
- RFC 1541/1542/2131/3396/3442 DHCP
- RFC 1757/2819 RMON and MIB
- RFC 2131/3046 DHCP/BootP Relay
- RFC 2132 DHCP Options
- RFC 2251 LDAP v3
- RFC 3060 Policy Core
- RFC 3176 sFlow
- RFC 3021 Using 31-bit prefixes

OmniSwitch 6250 Ordering

PART NUMBER	DESCRIPTION
OS6250-8M	OS6250-8M Fast Ethernet chassis with AOS Metro software.
	Chassis provides 8 RJ-45 ports configurable to 10/100 BaseT, 2 SFP/RJ45 combo ports configurable to be 10/100/1000 BaseT or 100/1000 BaseX and 2 SFP fiber ports configurable to be 1G uplinks or 2.5G stacking ports in a 1U by half rack form factor with internal AC power supply.
OS6250-24M	OS6250-24M Fast Ethernet chassis with AOS Metro software.
OS6250-24MD	Chassis provides 24 RJ-45 ports configurable to 10/100 BaseT, 2 RJ45/SFP combo ports configurable to be 10/100/1000 BaseT or 100/1000 BaseX and 2 SFP fiber ports configurable to be 1G uplinks or 2.5G stacking ports in a 1U by half rack form factor with internal AC or DC power supply respectively.
OS6250-24	OS6250-24 Fast Ethernet chassis with AOS Enterprise software. Chassis includes 24 RJ-45 ports configurable to 10/100 BaseT, 2 RJ45/SFP combo ports configurable to be 10/100/1000 BaseT or 100/1000 BaseX and two dedicated 2.5G HDMI stacking ports. Ethernet SFP optical transceivers, HDMI stacking cables and backup power supply can be ordered separately.
OS6250-P24	OS6250-P24 Fast Ethernet chassis with AOS Enterprise software.
	Chassis includes 24 PoE RJ-45 ports configurable to 10/100 BaseT, 2 SFP/POE RJ45 combo ports configurable to be 10/100/1000 BaseT or 100/1000 BaseX and two dedicated 2.5G HDMI stacking ports in a 1U by half rack form factor with external AC POE supply. Includes 225W AC PoE supply and power shelf.
BOS6250-48	Two OS6250-24 units with AOS Enterprise software bundled for side by side mounting in a 19" by 1U rack space providing a total of 48 Fast Ethernet and 4 RJ45/SFP combo ports.
BOS6250-P48	Two OS6250-P24 units with AOS Enterprise software bundled for side by side mounting within a 19" by 1U rack space for a total of 48 PoE Fast Ethernet ports and 4 PoE RJ45/SFP combo ports. Includes two 225W supplies and power shelves.
The above parts also contains	Ethernet SFP optical transceivers and SFP direct connect stacking cable can be ordered separately.
	Above bundles includes country specific power cords, user manuals access cards, software download access cards, RJ-45 to DB-9 adaptors and hardware for mounting unit side by side with another OS6250 in a 19" rack.
	Order mounting tray kit (OS6250-RM-19) for single mounting the unit in a 19" rack.

Power Supplies	
OS6250-BP	OS6250-BP 40W power brick AC backup power supply. Provides backup power to one non-PoE switch. Ships with country specific power cord, backup power supply tray and securing brackets.
OS6250-BP-P	OS6250-BP-P 225W AC POE backup power supply. Provides backup power to one PoE switch. Ships with country specific power cord and backup power supply tray.
OS6250-BP-D	OS6250-BP-D 30W DC power brick backup power supply. Provides backup DC power to one non-PoE switch. Ships with chassis connection cable, backup power supply tray and securing brackets.

Cables & Mounting	
OS6250-CBL-30	OS6250 30 centimeters long HDMI stacking cable.
OS6250-CBL-60	OS6250 60 centimeters long HDMI stacking cable.
OS6250-CBL-150	OS6250 150 centimeters long HDMI stacking cable.
OS6250M-CBL-30	OS6250M 30 centimeters long SFP direct stacking cable.
OS6250M-CBL-60	OS6250M 60 centimeters long SFP direct stacking cable.
OS6250M-CBL-150	OS6250M 150 centimeters long SFP direct stacking cable.
OS6250-RM-19	Tray kit for mounting one OS6250 in a 19" rack.
OS6250-DUAL-MNT	Two mounting and sliding brackets replacement kit. Hardware to mount two 6250 units in a 19" rack.

Gigabit Transceivers	
SFP-GIG-LH70	1000BaseLH transceiver with an LC interface for single mode fiber over 1550nm wavelength. Typical reach of 70km.
SFP-GIG-LH40	1000BaseLH transceiver with an LC interface for single mode fiber over 1310nm wavelength. Typical reach of 40 Km.
SFP-GIG-LX	1000BaseLX transceiver with an LC interface for single mode fiber over 1310nm wavelength. Typical reach of 10 Km.
SFP-GIG-SX	1000BaseSX transceiver with an LC interface for multimode fiber over 850 nm wavelength. Typical reach of 300m.
SFP-GIG-BX-D	1000Base-BX bi-directional transceiver with an LC type interface for use over single mode fiber optic on a single strand link up to 10 km point to point. Transmits 1490 nm and receives 1310 nm optical signal.
SFP-GIG-BX-U	1000Base-BX bi-directional transceiver with an LC type interface for use over single mode fiber optic on a single strand link up to 10 km point to point. Transmits 1310 nm and receives 1490 nm optical signal.
100 megabit Transceivers	
SFP-100-MM	100BaseFX transceiver with an LC interface for multimode fiber optic cable.
SFP-100-SM15	100BaseFX transceiver with an LC type interface for single mode fiber optic cable up to 15KM.
SFP-100-SM40	100BaseFX transceiver with an LC type interface for single mode fiber optic cable up to 40KM.
SFP-100-BX-U	100BaseBX bi-directional transceiver with an SC type interface for use over single mode fiber optic on a single strand link up to 20KM point-to-point, where the client (ONU) transmits 1310nm and receives 1550nm optical signal.
SFP-100-BX-D	100BaseBX bi-directional transceiver with an SC type interface for use over single mode fiber optic on a single strand link up to 20KM point-to-point, where the client (OLT) transmits 1550nm and receives 1310nm optical signal.

Service and Support

WARRANTY Information – OmniSwitch 6250 Lifetime Support
Alcatel-Lucent includes Limited Lifetime Warranty with the purchase of your OmniSwitch 6250 product. This program covers both the OmniSwitch 6250 hardware and related Alcatel-Lucent Operating System (AOS) software.

Hardware Limited Lifetime Warranty (LLW) Support
This hardware warranty support service concerns Alcatel-Lucent OmniStack and OmniSwitch 6XXX series (refer to the worldwide price list – WPL for information on availability). Limited to the original owner or/and registered end-user, this service is provided for up to five (5) years after product End of Sales (EoS) announcement.

Replacement parts will be shipped within five (5) business days of reception of order with refurbished product.

Note: Hardware limited lifetime Warranty does not cover transceivers
This service covers only hardware switch replacement and does not apply to transceivers.

Software Limited Lifetime Support
This service applies to Alcatel-Lucent OmniSwitch 6250 series. Limited to the original product owner or/and registered end-user, this AVR service will be provided for up to two (2) years after product End of Sales (EoS) announcement.

This service includes:
_ Technical support with Alcatel-Lucent Switch Certified personnel
_ Web and phone access to support services
_ Remote diagnostics
_ Operating system software Maintenance, Minor and Major releases

For more information about the Alcatel-Lucent OmniSwitch 6250 warranty, service and support programs, please visit:
www.alcatel-lucent.com/support

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