Alcatel-Lucent OmniSwitch 6370

Stackable Gigabit and Multi-Gigabit Ethernet LAN Switch Family

The Alcatel-Lucent OmniSwitch® 6370 is a high-performance, Gigabit and Multi-Gigabit Ethernet family designed for next-generation digital enterprise and converged access. These secure and reliable switches offer advanced Layer 3 capabilities and high-power 95W PoE to bridge the gap between value-access and high-performance multi-gigabit switching.

Engineered to support the most demanding IoT deployments, the OS6370 is ideal for enterprise branch offices and SMB networks, providing maximum investment protection with field-proven reliability, robust cybersecurity and unified management.

OmniSwitch 6370-P12

OmniSwitch 6370-P24X

OmniSwitch 6370-48

Key Features

- 12, 24, and 48-port Gigabit Ethernet; PoE+ variants deliver 30W per port at line-rate throughput
- 12, 24 and 48-port Multi-Gigabit PoE models featuring 12, 8 and 16 ports of 2.5G; delivering 95W on two ports and 60W PoE on the remaining Multi-Gigabit ports with line-rate performance
- 10 GigE virtual chassis up to 8 units managed as a single logical entity with In Service Software Upgrade (ISSU)
- Perpetual and Fast PoE support across all PoE models to ensure persistent power to IoT devices
- Compact fan-less models are available for noise-sensitive co-location work environments

Management

- Standard management through command line interface (CLI), web interface (WebView 2.0), RestAPI and Simple Network Management Protocol (SNMP)
- Cloud and on-premises deployment options for flexible, resilient and scalable network management through Alcatel-Lucent OmniVista®
- OmniSwitch Lightning Configuration provides easy, out-of-the-box configuration and deployment suitable for users of all technical levels
- OmniVista Smart Tool field-ready utility for the rapid resolution of cable and PoE issues commonly encountered in OT and IoT environments

Security

- "Secure by Default" principles are enforced right out of the box with Zero Trust architecture
- Secure Boot ensures supply chain protection starting from the factory, preventing the execution of malicious or unauthorized firmware
- Alcatel-Lucent Access Guardian and IoT device profiling and containment to protect users from internal threats
- Denial-of-Service (DoS) engine, Access Control Lists (ACLs) and quality of service (QoS) ensure the user experience while filtering vulnerabilities
- Comprehensive endpoint security Including Learned Port Security (LPS), port mapping, DHCP snooping binding tables and User Network Profiles (UNP) to ensure granular control at the network edge
- Protection from cyber-attacks with secure, diversified AOS software image
- Designed for NDcPP certification *

Performance and redundancy

- Wire-rate switching and routing performance across all models
- Advanced IPv4 and v6 routing protocols and 10G uplink activated through software license purchase
- High availability with virtual chassis technology, remote/redundant stacking links, primary/secondary unit failover and configuration rollback

IoT convergence

- High-power 95W PoE delivered on Multi-Gigabit ports to support demanding devices such as Wi-Fi 7 access points, PTZ surveillance cameras, self-service kiosks and Ultra HD digital signage
- Zero config service discovery via mDNS relay provides a seamless user experience by bridging service discovery (such as printers and cameras) across different subnets and between wireless and wired networks in IoT deployments
- Enhanced user experience in Unified Communications and Collaboration (UCC) with profile-based classification

Benefits

- Future-proof infrastructure accommodates the high-bandwidth requirements of Wi-Fi 7 and next-generation IoT devices with high power PoE Multi-Gigabit
- Reduced total cost of ownership (TCO) maximizes investment through a licensing model for 10G uplinks and advanced routing, avoiding upfront costs for unused features
- Simplified operations streamline deployment and troubleshooting with zero-touch provisioning and specialized field utilities, reducing the need for highly specialized on-site technical staff
- Uncompromising security protects enterprise data and assets with built-in Zero Trust principles and a hardened OS designed for the stringent security certifications
- Enhanced business continuity minimizes network downtime using virtual chassis technology and In-Service Software Upgrades (ISSU) to maintain connectivity during maintenance

Note: * Supported in future release

Product specifications

PoE Gigabit model	1G user ports	1G SFP	1G/10G SFP+	PoE wattage per port	Power supply/ PoE budget	Fan
OS6370-P12*	12	2	2	30W x 12 ports	Internal (145W)	Fan-less
OS6370-P24	24	2	2	30W x 24 ports	Internal (190W)	Fan-less
OS6370-P48	48	4	2	30W x 48 ports	Internal (360W)	Variable speed
OS6370-PH24*	24	2	2	30W x 24 ports	Internal (360W)	Variable speed
OS6370-PH48*	48	4	2	30W x 48 ports	Internal (760W)	Variable speed
OS6370-P24X	24	0	4	30W x 24 ports	Internal (360W)	Variable speed
OS6370-P48X*	48	2	4	30W x 48 ports	Internal (760W)	Variable speed
PoE Multi-Gigabit	**1G/2.5G user ports**	**1G SFP**	**1G/10G SFP+**	**PoE wattage per port**	**Power supply/ PoE budget**	**Fan**
OS6370-P12Z12	0/12	0	4	60W x 10 ports, 95W x 2 ports	Internal (360W)	Variable speed
OS6370-P24Z8	16/8	0	4	30W x 16 ports, 60W x 6 ports, 95W x 2 ports	Internal (360W)	Variable speed
OS6370-P48Z16	32/16	0	4	30W x 32 ports, 60W x 14 ports, 95W x 2 ports	Internal (760W)	Variable speed
Non-PoE Gigabit	**1G user ports**	**1G SFP**	**1G/10G SFP+**	**PoE wattage per port**	**Power supply/ PoE budget**	**Fan**
OS6370-12*	12	2	2	NA	Internal	Fan-less
OS6370-24	24	2	2	NA	Internal	Fan-less
OS6370-48	48	4	2	NA	Internal	Variable speed
OS6370-24X	24	0	4	NA	Internal	Variable speed
OS6370-48X*	48	2	4	NA	Internal	Variable speed
Fiber model	**1G user ports**	**1G SFP**	**1G/10G SFP+**	**PoE wattage per port**	**Power supply/ PoE budget**	**Fan**
OS6370-U24X	24	0	4	NA	Internal	Variable speed

Note:

OS6370-SW-PERF4 software license enables 4 SFP+ Ports to upgrade from 1G speed and operate at 10G speed after applying the software upgrade (applicable to OS6370-PH model)

OS6370-SW-PERF2 software license enables 2 SFP+ Ports to upgrade from 1G speed and operate at 10G speed after applying the software upgrade (applicable to OS6370-12, OS6370-P12, OS6370-PH24, OS6370-PH48, OS6370-P48X, and OS6370-48X models)

Product specifications

Gigabit product matrix	OS6370-12	OS6370-P12	OS6370-24	OS6370-P24	OS6370-48	OS6370-P48
Gigabit RJ-45 ports	12	12 PoE+	24	24 PoE+	48	48 PoE+
1G SFP	2	2	0	0	0	0
1G/10G SFP+	2	2	2	2	4	4
1G/10G SFP+ uplink or VFL	0	0	2	2	2	2
Console port	1	1	1	1	1	1
USB 2.0, Type-A	1	1	1	1	1	1
Management port	1	1	1	1	1	1
Primary power	Internal	Internal	Internal	Internal	Internal	Internal
Backup power	N/A	N/A	N/A	N/A	N/A	N/A
Fans	0	0	0	0	2	3
CPU	800MHz MIPs	800MHz MIPs	1GHz MIPs	1GHz MIPs	1GHz MIPs	1GHz MIPs
File system flash NAND flash	512MB	512MB	512MB	512MB	512MB	512MB
RAM (DDR4)	1GB	1GB	1GB	1GB	1GB	1GB
Packet buffers	1.5MB	1.5MB	2MB	2MB	2MB	2MB
Performance aggregated						
Switching capacity (full duplex)	68 Gb/s	68 Gb/s	128 Gb/s	128 Gb/s	216 Gb/s	216 Gb/s
Throughput	50 Mpps	50 Mpps	95 Mpps	95 Mpps	160 Mpps	60 Mpps
2 x 10GE VFL capacity	N/A	N/A	40 Gb/s	40 Gb/s	40 Gb/s	40 Gb/s
Physical and environmental specifications						
Acoustics (dB) PoE models: 25°C @50% PoE load Non-PoE: all user ports active	<10 dB(A)	<10 dB(A)	<10 dB(A)	<10 dB(A)	34.46 dB(A)	35.6 dB(A)
System power Idle (100% traffic on all ports)	7.91W 21.79W	9.60W 22.67W	13.53W 29.53	17.22W 34.86W	29.12W 71.13W	36.91W 86.30W
System heat dissipation	74.35(BTU/h)	77.35 (BTU/h)	100.76 (BTU/h)	118.94 (BTU/h)	242.70 (BTU/h)	294.45 (BTU/h)
Power consumption w/PoE	No PoE support	182.5W	No PoE support	240.22W	No PoE support	485W
Heat dissipation w/PoE	No PoE support	622.69(BTU/h)	No PoE support	819.63 (BTU/h)	No PoE support	1654.82 (BTU/h)
Power supply efficiency (max load)	85.6%	89.6%	85.9%	91.1%	89.3%	91.0%
System MTBF (hours) at 25°C	1,872,189	656,833	775,504	611,530	508,276	402,012
# of fans	0	0	0	0	2	3
Height	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 (1.73 in)	4.4 cm (1.73 in)
Width	21.8 cm (8.5 in)	21.8 cm (8.5 in)	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)
Depth	28 cm (11 in)	28 cm (11 in)	22 cm (8.6 in)	22 cm (8.6 in)	33 cm (11.8 in)	33 cm (11.8 in)
Weight	1.6 kg (3.6 lbs.)	2.1 kg (4.6 lbs.)	2.6 Kg (5.87 lbs.)	3.32 Kg (7.32 lbs.)	4.16 Kg (9.16 lbs.)	4.55 Kg (10 lbs.)
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)	0°C to 45°C (32°F to 113°F)
Storage temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	--40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Humidity (operating)	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing

Note: * SFP ports are upgradable to 10G speeds with the OS6370-SW-PERF license

Product specifications

Gigabit product matrix	OS6370-PH24	OS6370-P24X	OS6370-24X	OS6370-PH48	OS6370-P48X	OS6370-48X
Gigabit RJ-45 ports	24 PoE+	24 PoE+	24	48 PoE+	48 PoE+	48
1G SFP	0	0	0	0	0	0
1G SFP/10G SFP+	2*	0	0	2*	2*	2*
1G/10G SFP+ uplink or VFL	2	4	4	4	4	4
Console port	1	1	1	1	1	1
USB 2.0, Type-A	1	1	1	1	1	1
Management port	1	1	1	1	1	1
Primary power	Internal	Internal	Internal	Internal	Internal	Internal
Backup power	N/A	N/A	N/A	N/A	N/A	N/A
Fans	2	2	0	3	3	2
CPU	1GHz MIPs	1GHz MIPs	1GHz MIPs	1GHz MIPs	1GHz MIPs	1GHz MIPs
File system flash NAND flash	512MB	512MB	512MB	512MB	512MB	512MB
RAM (DDR4)	1GB	1GB	1GB	1GB	1GB	1GB
Packet buffers	2MB	2MB	2MB	2MB	2MB	2MB
Performance aggregated						
Switching capacity (full duplex)	128 Gb/s	128 Gb/s	128 Gb/s	216 Gb/s	216 Gb/s	216 Gb/s
Throughput	95 Mpps	95 Mpps	95 Mpps	160 Mpps	160 Mpps	160 Mpps
2 x 10GE VFL capacity	40 Gb/s	40 Gb/s	40 Gb/s	40 Gb/s	40 Gb/s	40 Gb/s
Physical and environmental specifications						
Acoustics (dB) PoE models: 25°C @50% PoE load Non-PoE: all user ports active	35.6 dB(A)	35.6 dB(A)	<10 dB(A)	40.9 dB(A)	40.9 dB(A)	34.46 dB(A)
System power Idle (100% traffic on all ports)	25.37W 47.98W	25.37W 47.98W	13.53W 29.53	36.21W 83.43W	36.21W 83.43W	29.12W 71.13W
System heat dissipation	163.71 (BTU/h)	163.71(BTU/h)	100.76 (BTU/h)	274.66 (BTU/h)	274.66 (BTU/h)	242.70 (BTU/h)
Power consumption w/PoE	444.66W	444.66W	No PoE support	952.38 W	952.38 W	No PoE support
Heat dissipation w/PoE	1517.18 (BTU/h)	1517.18(BTU/h)	No PoE support	3249.5 (BTU/h)	3249.5 (BTU/h)	No PoE support
Power supply efficiency (max load)	91.3%	91.3%	85.9%	89.5%	89.5%	89.3%
System MTBF (hours) at 25°C	525,727	525,727	775,504	406,807	406,807	508,276
# of fans	2	2	0	3	3	2
Height	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 (1.73 in)	4.4 cm (1.73 in)
Width	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)
Depth	22 cm (8.6 in)	22 cm (8.6 in)	22 cm (8.6 in)	33 cm (12.9 in)	33 cm (12.9 in)	33 cm (12.9 in)
Weight	2.84 Kg (6.25 lbs.)	2.84 Kg (6.25 lbs.)	2.84 Kg (6.25 lbs.)	4.74 Kg (10.4 lbs.)	4.74 Kg (10.4 lbs.)	4.12 Kg (9.1 lbs.)
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)	0°C to 45°C (32°F to 113°F)
Storage temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Humidity (operating)	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing

Note: * SFP ports are upgradable to 10G speeds with the OS6370-SW-PERF license

Product specifications

Gigabit product matrix	OS6370-P12Z12	OS6370-P24Z8	OS6370-P48Z16	OS6370-U24X
Gigabit RJ-45 ports (1G)	0	16 (16 @ 30W)	32 (32 @ 30W)	0
Multi-gig (1G/2.5G) RJ-45	12 (10 @ 60W, 2 @ 95W)	8 (6 @ 60W, 2 @ 95W)	16 (14 @ 60W, 2 @ 95W)	
1G SFP	0	0	0	24
1G SFP/10G SFP+	0	0	0	2
1G/10G SFP+ uplink or VFL	4	4	4	2
Console port	1	1	1	1
USB 2.0, Type-A	1	1	1	1
Management port	1	1	1	1
Primary power	1	1	1	1
Backup power	N/A	N/A	N/A	N/A
Fans	2	3	3	3
CPU	1GHz MIPs	1GHz MIPs	1GHz MIPs	1GHz MIPs
File system flash NAND flash	512 MB	512 MB	512 MB	512 MB
RAM (DDR4)	DDR4 1 GB	DDR4 1 GB	DDR4 1 GB	DDR4 1 GB
Packet buffers	2MB	2MB	2MB	2MB
Performance aggregated				
Switching capacity (full duplex)	140 Gb/s	152 Gb/s	224 Gb/s	128 Gb/s
Throughput	104 Mpps	152 Mpps	166 Mpps	95 Mpps
2 x 10GE VFL capacity	40 Gb/s	40 Gb/s	40 Gb/s	40 Gb/s
Physical and environmental specifications				
Acoustics (dB) PoE models: 25°C @50% PoE load Non-PoE: all user ports active	30.6 dB(A)	33.2 dB(A)	40.76 dB(A)	37.14 dB(A)
System power Idle (100% traffic on all ports)	25.6W 48.63W	33.57W 58.41W	37.55W 85.13W	33.39W 61.17W
System heat dissipation	165.92 (BTU/h)	199.29 (BTU/h)	290.46 (BTU/h)	208.71 (BTU/h)
Power consumption w/PoE	443.37W	460.95W	945.93W	No PoE support
Heat dissipation w/PoE	1512.77 (BTU/h)	1572.76 (BTU/h)	3227.51(BTU/h)	No PoE support
Power supply efficiency (max load)	89.7%	91.0%	87.9%	87.8%
System MTBF (hours) at 25°C	611,530	381,124	367,833	433,692
# of fans	2	3	3	3
Height	4.4 cm (1.73 in)	4.4 cm (1.73 in)	4.4 cm (1.73 in)	4.4 cm (1.73 in)
Width	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)	44 cm (17.3 in)
Depth	22 cm (8.6 in)	22 cm (8.6 in)	22 cm (8.6 in)	22 cm (8.6 in)
Weight	2.7 Kg (5.94 lbs.)	2.9 Kg (6.38 lbs.)	4.8 Kg (10.5 lbs.)	2.5 Kg (5.5 lbs.)
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° (32°F to 113°F)
Storage temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Humidity (operating)	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing

Commercial references

OmniSwitch 6370 Gigabit models	
OS6370-12	OS6370-12 GigE fixed 1RU chassis 12 RJ-45 10/100/1G BaseT, 2 fixed SFP (10G), 2 fixed SFP (1G) uplink ports with 10G Software license upgrade. Internal AC power supply. Includes country-specific power cord and guides. Order 19" rack mount kit separately.
OS6370-P12	OS6370-P12 GigE fixed 1 RU chassis 12 RJ-45 PoE 10/100/1G BaseT, 2 fixed SFP (10G), 2 fixed SFP (1G) uplink ports with 10G Software license upgrade. Internal AC power supply (145W PoE budget). Includes country-specific power cord and guides. Order 19" rack mount kit separately.
OS6370-24	OS6370-24 GigE fixed 1 RU chassis 24 RJ-45 10/100/1G BaseT, 2 x SFP (1G) uplink, 2 x SFP+ (1/10G) uplink/ stacking ports. Internal AC power supply. Includes country-specific power cord, guides, and 19" rack mount kit.
OS6370-P24	OS6370-P24 fixed 1 RU chassis 24 PoE 10/100/1G BaseT, 2 x SFP (1G) Uplink, 2 x SFP+ (1/10G) uplink/stacking ports. Internal AC PSU (190W PoE budget), includes country-specific power cord, guides and 19" rack mount kit.
Os6370-24X	OS6370-24X fixed 1RU chassis 24 RJ-45 10/100/1G BaseT, 2 SFP+ (10G) uplink ports, 2 SFP+(10G) uplink/stacking ports. Internal AC power supply, includes country-specific power cord, guides and 19" rack mount kit.
OS6370-P24X	OS6370-P24X fixed 1RU chassis 24 PoE 10/100/1G BaseT, 2 SFP+ (1/10G) uplink ports, 2 SFP+(1/10G) uplink/stacking ports. Internal AC PSU (360W PoE budget), includes country-specific power cord, guides, and 19" rack mount kit.
OS6370-PH24	OS6370-PH24 fixed 1RU chassis 24 PoE10/100/1G BaseT, 2 x SFP (1/10G) uplink with 10G Software license upgrade, 2 x SFP+ (1/10G) uplink/stacking ports. Internal AC PSU (360W PoE budget) includes country-specific power cord, guides and 19" rack mount kit.
OS6370-48	OS6370-48 GigE fixed chassis 48 RJ-45 10/100/1G BaseT, 2 x SFP (1G) uplink, 2 x SFP (1G) , upgradeable to 10G by license + 2 x SFP+ (10G) uplink/stacking ports. 1RU size, internal AC power supply. Includes country-specific power cord, guides, and 19" rack mount kit.
OS6370-P48	OS6370-P48 fixed 1RU chassis 48 PoE 10/100/1G BaseT, 2 x SFP (1G) uplink, 2 x SFP (1G) , + 2 x SFP+ (1/10G) uplink/ stacking ports. Internal AC PSU (360W PoE budget), includes country-specific power cord, guides and 19" rack mount kit.
OS6370-48X	OS6370-48X fixed 1RU chassis 48 RJ-45 10/100/1G BaseT, 2xSFP+(1/10G) uplink, 2xSFP(1G) uplink with 10G Software license upgrade, 2xSFP+(1/10G) uplink/stacking ports. Internal AC power supply, includes country-specific power cord, guides and 19" rack mount kit.
OS6370-P48X	OS6370-P48X fixed 1RU chassis 48 PoE 10/100/1G BaseT, 2xSFP+(1/10G) uplink, 2xSFP(1G) with 10G Software license upgrade, 2xSFP+(1/10G) uplink/stacking ports. Internal AC PSU (760W PoE budget), includes country-specific power cord, guides and 19" rack mount kit.
OS6370-PH48	OS6370-PH48 fixed 1RU chassis 48 PoE 10/100/1G BaseT, 2 x SFP (1G) uplink with 10G Software license upgrade, 2 x SFP (1G) , with 10G Software license upgrade + 2 x SFP+ (10G) uplink/stacking ports. Internal AC PSU (760W PoE budget) includes country-specific power cord, guides, and 19" rack mount kit.
OmniSwitch 6370 Multi-Gigabit models	
OS6370P12Z12	OS6370P12Z12 fixed 1RU chassis 12 x 10/100/1G/2.5G RJ45 copper port, 4 x SFP+ (1G/10G) uplink/stacking ports. Internal AC PSU (190W PoE budget), includes country-specific power cord, guides and 19" rack mount kit.
OS6370-P24Z8	OS6370-P24Z8 fixed 1RU chassis 16 x 10/100/1G + 8 x 10/100/1G/2.5G RJ45 copper port, 4 x SFP+ (1G/10G) uplink/stacking ports. Internal AC PSU (360W PoE budget), includes country-specific power cord, guides and 19" rack mount kit.
OS6370P48Z16	OS6370P48Z16 fixed 1RU chassis 32 x 10/100/1G + 16 x 10/100/1G/2.5G RJ45 copper port, 4 x SFP+ port (1G/10G) uplink/stacking ports. Internal AC PSU (760W PoE budget), includes country-specific power cord, guides and 19" rack mount kit.
OmniSwitch 6370 Fiber model	
OS6370-U24X	OS6370-U24X fixed 1RU chassis 24 x 100/1000M SFP fiber port, 4x1G/10G SFP+ uplink/stacking ports. Includes country-specific power cord, guides and mounting brackets.
OmniSwitch 6370 software	
OS6370-SW-PERF4	OS6370 Performance software license upgrade allowing 4 fixed SFP+ ports to operate at 10G (Applicable to OS6370-PH48)
OS6370-SW-PERF2	OS6370 Performance Software license upgrade allowing 2 fixed ports SFP+ ports to operate at 10G (applicable to OS6370-12,OS6370-P12, OS6370-PH24 , OS6370-PH48, OS6370-P48X)
OS6370-SW-AR	OS6370 software license to enable advanced routing on a per-NI switch basis. Enable advanced routing protocols (OSPFv2, OSPFv3, PIM-DM, PIM-SM, RIPv2,RIPng, BFD)

Commercial references

OmniSwitch 6370 10G transceivers	
OS6370-CBL-60CM	10 Gigabit direct attached uplink/stacking copper cable (60 cm, SFP+).
OS6370-CBL-1M	10 Gigabit direct attached uplink/stacking copper cable (1 m, SFP+).
OS6370-CBL-3M	10 Gigabit direct attached uplink/stacking copper cable (3 m, SFP+).
SFP-10G-SR	10 Gigabit optical transceiver (SFP+). Supports multimode fiber over 850 nm wavelength (nominal) with an LC connector. Typical reach of 300 m.
SFP-10G-LR	10 Gigabit optical transceiver (SFP+). Supports single-mode fiber with an LC connector. Typical reach of 10 Km.
SFP-10G-ER	10 Gigabit optical transceiver (SFP+). Supports single-mode fiber over 1550 nm wavelength (nominal) with an LC connector. Typical reach of 40 km.
SFP-10G-BX-D	10 Gigabit optical transceiver (SFP+) with an LC type of interface. This bi-directional transceiver is designed for use over single-mode fiber optic on a single-strand link up to 10 km. Transmits 1270 nm and receives 1330 nm optical signal.
SFP-10G-BX-U	10 Gigabit optical transceiver (SFP+) with an LC type of interface. This bi-directional transceiver is designed for use over single-mode fiber optic on a single-strand link up to 10 km. Transmits 1330 nm and receives 1270 nm optical signal.
OmniSwitch 6370 Gigabit transceivers	
SFP-GIG-T	1000Base-T Gigabit Ethernet Transceiver (SFP MSA). SFP works at 1000 Mb/s speed and full-duplex mode.
SFP-GIG-SX	1000Base-SX Gigabit Ethernet optical transceiver (SFP MSA).
SFP-GIG-LX	1000Base-LX Gigabit Ethernet optical transceiver (SFP MSA).
SFP-GIG-LH40	1000Base-LH Gigabit Ethernet optical transceiver (SFP MSA). Typical reach of 40 km on 9/125 µm SMF.
SFP-GIG-LH70	1000Base-LH Gigabit Ethernet optical transceiver (SFP MSA). Typical reach of 70 km on 9/125 µm SMF.
OmniSwitch 6370 12-port mounting options	
OS6370-RM-19-L	Simple L-bracket for mounting a single OS6370-12/P12 switch in a 19" rack.
OS6370-WALL-MNT	Wall mounting kit for OS6370 products. Universal mounting brackets and screws are included for wall mounting the OS6370 switch.

Warranty

The OmniSwitch 6370 family comes with a Limited Lifetime Warranty.

Detailed product features

Simplified management

- Intuitive CLI in a scriptable BASH environment via console, Telnet or Secure Shell (SSH) v2 over IPv4/IPv6
- Powerful WebView Graphical Web Interface via HTTP and HTTPS over IPv4/ IPv6+
- Fully programmable RESTful web services interface with XML and JSON support. API enables access to CLI and individual MIB objects.
- Integrated with Alcatel-Lucent OmniVista products for network management
- Full configuration and reporting using SNMPv1/2/3 to facilitate third-party network management over IPv4/IPv6
- File upload using USB, TFTP, FTP, SFTP or SCP using IPv4/IPv6
- Human-readable ASCII-based configuration files for off-line editing, bulk configuration and out-of-the-box auto-provisioning
- Multiple microcode image support with fallback recovery
- Dynamic Host Configuration Protocol (DHCP) relay for IPv4/ IPv6
- IEEE 802.1AB Link Layer Discover Protocol (LLDP) with Media Endpoint Discover (MED) extensions
- Network Time Protocol (NTP)
- Lightning Config feature

Monitoring and troubleshooting

- Local (on the flash memory) and remote server logging (Syslog): event and command logging
- IP tools: ping and trace route
- Loopback IP address support for management per service
- Policy- and port-based mirroring
- Remote port mirroring
- sFlow v5 and Remote Monitoring (RMON)
- Unidirectional Link Detection (UDLD) and Digital Diagnostic Monitoring (DDM)
- Loopback Detection (LBD)

Network configuration

- Zero-touch provisioning and provisioning based on templates using OmniVista Terra/OmniVista Cirrus
- 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-configuration of switch IP information for simplified deployment
- DHCP relay to forward client requests to a DHCP server
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP) with MED extensions for automated device discovery
- Multiple VLAN Registration Protocol (MVRP) for IEEE 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
- Virtual chassis up to 8 units of 24 and 48 port models

Resiliency and high availability

- Unified management, control, and virtual chassis technology
- Virtual chassis 1+N redundant supervisor manager
- Virtual chassis In-Service Software Upgrade (ISSU)
- Smart continuous switching technology
- ITU-T G.8032/Y1344 2010: Ethernet Ring Protection
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) encompasses IEEE 802.1D Spanning Tree Protocol (STP) and IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- Per-VLAN spanning tree (PVST+) and 1x1 STP mode
- Bidirectional Forwarding Detection (BFD) for fast failure detection and reduced re-convergence times in a routed environment (Required Software routing license)
- IEEE 802.3ad/802.1AX Link Aggregation Control Protocol (LACP) and static LAG groups across modules
- Built-in CPU protection against malicious attacks
- Split virtual chassis protection: Auto- detection and recovery of virtual chassis splitting due to one or more VFL or stack element failures

Advanced security

Access control

- Alcatel-Lucent Access Guardian framework for comprehensive user- policy-based NAC
- Autosensing IEEE 802.1X multi-client, multi-VLAN support

- MAC-based authentication for non-IEEE 802.1X hosts
- Web-based authentication (captive portal): a customizable web portal residing on the switch
- User Network Profile (UNP) simplifies NAC by dynamically providing pre-defined policy configuration to authenticated clients—VLAN, ACL, BW
- Secure Shell (SSH) with public key infrastructure (PKI) support
- Terminal Access Controller Access Control System Plus (TACACS+) client
- Centralized Remote Access Dial-In User Service (RADIUS) and Lightweight Directory Access Protocol (LDAP) administrator authentication
- Centralized RADIUS for device authentication and network access control authorization
- Learned Port Security (LPS) or MAC address lockdown
- Access Control Lists (ACLs); flow-based filtering in hardware (Layer 1 to Layer 4)
- DHCP Snooping, DHCP IP and Address Resolution Protocol (ARP) spoof protection
- ARP poisoning detection
- IP source filtering as a protective and effective mechanism against ARP attacks
- BYOD provides onboarding of guests, IT/non-IT issued and silent devices; restriction/remediation of traffic from non-compliant devices. RADIUS CoA dynamically enforces User Network Profiles based on authentication, profiling and posture check of devices using Unified Policy Access Manager (UPAM)

Converged networks

PoE

- PoE models support Alcatel-Lucent IP phones and WLAN access points, as well as any IEEE 802.3af, IEEE 802.3at or 802.3bt compliant end device
- Configurable per-port PoE priority and max power for power allocation
- Dynamic PoE allocation: Delivers only the power needed by the powered devices (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 (also known as remarking) prioritization
- Bandwidth management: Flow-based bandwidth management; ingress rate limiting; egress rate shaping per port
- Queue management: Configurable scheduling algorithms—Strict Priority Queuing (SPQ), Weighted Round Robin (WRR)
- 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

Layer 2, Layer 3 routing and multicast

Layer 2 switching

- Up to 32k MAC addresses
- Up to 4000 VLANs
- Up to 1.5k total system policies
- Latency: < 4 µs
- Max frame: 9216 bytes (jumbo)

IPv4 and IPv6

- Static routing for IPv4 and IPv6
- Up to 256 IPv4 and 32 IPv6 static routes
- Up to 128 IPv4 and 32 IPv6 interfaces
- 2K ARPs (IPv4 hosts), 128(IPv6 hosts)
- 2K IPv4 and 1024 IPV6 LPM routes

Multicast

- IGMPv1/v2/v3 snooping to optimize multicast traffic
- Multicast Listener Discovery (MLD) v1/v2 snooping
- Up to 1000 multicast groups

Network protocols

- DHCP relay (including generic UDP relay)
- DHCP server (IPV4)
- ARP
- Generic User Datagram Protocol (UDP) relay per VLAN
- DHCP Option 82 - configurable relay agent information

Indicators

System LEDs

- System (OK) (chassis HW/SW status)
- PWR (primary power supply status)
- VC (virtual chassis primary)

Per-port LEDs

- 10/100/1000: PoE, link/activity
- 100/1000/2.5GE: Link/activity/PoE status
- SFP: Link/activity
- Virtual chassis (VFL): Link/activity

Compliance and certifications

Commercial EMI/EMC

- FCC Part CFR Part 15 Class A
- ICES–003: 2012 Issue 5, Class A
- AS/NZS 3548 (Class A) - C-Tick
- AS/NZS 3548 (Class A limits. Note: Class A with UTP cables)
- EU RoHS Directive 2011/65/EU and the amended Directive (EU) 2015/863
- EU REACH Regulation (EC) No. 1907/2006
- CE-Mark: Marking for European countries (Class A limits. Note: Class A with UTP cables)
- EN 55032
- EN 55035 :2017
- EN 61000-3-2 (Limits for harmonic current emissions)
- EN 61000-3-3
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-8
- EN 61000-4-11
- UKCA
- CISPR 32 (Class A)
- IEC/EN 62311
- Surge Requirement: 2KV1.2/40us criteria A, EN55035 (IEC/EN 61000-4-5): for both PoE and non PoE models 4KV1.2/50us criteria B, EN55035 (IEC/EN 61000-4-5
- IEEE802.3: Hi-Pot Test (2250 V DC on all Ethernet ports)

Safety agency certifications

- CDRH laser
- Compliant with RoHS and Waste Electrical and Electronic Equipment (WEEE) directives
- EN 60825-1 laser
- EN 60825-2 laser
- IEC 62368-1
- UL/CSA/EN/IEC 62368-1:2018
- UL-AR, Argentina
- AS/NZS, Australia
- ANATEL, Brazil
- CQC,China
- UL-GS Mark, Germany
- KCC Korea
- KES, Korean Safety for PoE switches
- NOM-019 SCFI Mexico
- BSMI, Taiwan
- TEC India

Supported standards

IEEE standards

- IEEE 802.1D (STP)
- IEEE 802.1p (CoS)
- IEEE 802.1Q (VLANs)
- IEEE 802.1s (MSTP)
- IEEE 802.1w (RSTP)
- IEEE 802.1X (Port Based Network Access Protocol)
- IEEE 802.3i (10Base-T)
- IEEE 802.3u (Fast Ethernet)
- IEEE 802.3x (Flow Control)
- IEEE 802.3z (Gigabit Ethernet)
- IEEE 802.3ab (1000Base-T)
- IEEE 802.3ac (VLAN Tagging)
- IEEE 802.3ad (Link Aggregation)
- IEEE 802.3ae (10 Gigabit Ethernet)
- IEEE 802.3af (Power-over-Ethernet)
- IEEE 802.3at (Power-over-Ethernet)
- IEEE 802.3bt (Power-over-Ethernet)
- IEEE 802.3az (Energy Efficient Ethernet)
- IEEE 802.3bz (2.5GE Multi-Gigabit Ethernet)

IETF RFCs

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 854/855 Telnet and Telnet options
- RFC 959/2640 FTP
- RFC 1350 TFTP
- 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 1867 Form-based File Upload in HTML
- RFC 1901-1908/3416-3418 SNMP v2c
- RFC 2096 IP MIB
- RFC 2131 DHCP Server/Client
- RFC 2388 Returning Values from Forms: multipart/form-data
- RFC 2396 Uniform Resource Identifiers (URI): Generic Syntax
- RFC 2570-2576/3410-3415/3584 SNMP v3
- RFC 2616 /2854 HTTP and HTML
- RFC 2667 IP Tunneling MIB
- RFC 2668/3636 IEEE 802.3 MAU MIB
- RFC 2674 VLAN MIB

- RFC 3023 XML Media Types
- RFC 3414 User-based Security Model
- RFC 3826 (AES) Cipher Algorithm in the SNMP User-based Security Model
- RFC 4122 A Universally Unique Identifier (UUID) URN Namespace
- RFC 4234 Augmented BNF for Syntax Specifications: ABNF
- RFC 4251 Secure Shell Protocol Architecture
- RFC 4292/4293 IPv4 SNMP IP MIBs
- RFC 4252 The Secure Shell (SSH) Authentication Protocol
- RFC 4627 JavaScript Object Notation (JSON)
- RFC 5424 The Syslog protocol
- RFC 6585 Additional HTTP Status Codes

Security

- RFC 1321 MD5
- RFC 1826/1827/4303/4305 Encapsulating Payload (ESP) and crypto algorithms
- 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 FTP Security Extensions
- RFC 2284 PPP EAP
- RFC 2869/2869bis RADIUS Extension
- RFC 4301 Security Architecture for IP

Quality of service

- 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 ARP
- RFC 919/922 Broadcasting Internet Datagram
- RFC 925/1027 Multi-LAN ARP/ Proxy ARP
- RFC 950 Subnetting
- 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 3021 Using 31-bit Prefixes
- RFC 3060 Policy Core
- RFC 3176 sFlow

Services and support

For more information about Alcatel-Lucent Enterprise professional services, support services and managed services, please go to www.al-enterprise.com/en/services.

Please visit our website to learn more. www.al-enterprise.com/en/products/switches/omniswitch-6370

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