

# OmniSwitch 6855

LAN CHASSIS-BASED LAN SWITCH

The Alcatel-Lucent OmniSwitch™ 6855 Ethernet Hardened LAN Switch models are industrial grade, managed, Gigabit Ethernet (GigE) switches designed to operate reliably in harsh electrical and severe temperature environments.



## OVERVIEW

The Alcatel-Lucent OmniSwitch 6855 Ethernet Hardened LAN Switch models are industrial grade, managed, GigE switches designed to operate reliably in harsh electrical and severe temperature environments.

This superior, rugged hardware design coupled with the widely deployed and field proven Alcatel-Lucent Operating System (AOS) makes it ideal for the following:

- Industrial and mission-critical applications - locations that require devices to operate at wider operating temperatures, have more stringent EMC/EMI requirements and have an optimized feature set for high security, reliability, performance and easy management.
- Applications requiring gigabit backbone connectivity - power utilities, transportation and traffic control systems, industrial factory floor

installations, video surveillance systems and outdoor installations

The target applications for these versatile LAN switches are power utilities, transportation and traffic control systems, industrial factory floor installations, video surveillance systems and outside installations, all requiring the benefits and performance of IP and Gigabit Ethernet.

## KEY BENEFITS

- Designed with redundancy and availability in mind
- Withstands industrial/military shock and vibration tests
- Designed to operate in a wide temperature range and harsh EMI/EMC environments with uninterrupted traffic and zero communication errors
- Environmentally-friendly product
- Wire-rate performance for IPv4 and IPv6 traffic
- PoE support that enables converged networks in challenged environments to connect and power security cameras, IP phones, wireless access points
- Fully secures the network at the edge, at no additional cost, by supporting the network proactive and reactive capabilities that are provided through the Alcatel-Lucent

Access Guardian, traffic anomaly detection, and the Alcatel-Lucent OmniVista™ 2500 Network Management System Quarantine Manager

- Supports cost-effective installation and deployment by automated switch setup and configuration, and end-to-end VLAN provisioning

## KEY FEATURES

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- Wire-rate IPv4/IPv6 Layer 2 and Layer 3 switching at gigabit speeds for safe investment
- Integrated security features for network access control, policy enforcement and attack containment
- Advanced QoS to support triple play applications
- Wide choice of models offering different port densities: 10GigE, 14GigE, and 24GigE copper and support variety of fiber types: single-mode, multimode, short- and long-haul optics allowing distances of up to 70 km
- Power over Ethernet (PoE) support on all copper models
- Diverse power supply options: External, redundant, hot swappable, AC and DC
- Convection cooling fanless design that offers increased reliability and lower acoustic levels
- Purpose-built, industrial strength hardware design, engineered to operate in temperatures ranging from -40°C up to +75°C

## TECHNICAL INFORMATION

Chassis models	GigE RJ-45 ports	GigE PoE ports	GigE SFP ports	GigE combo ports	10GigE SFP+ ports	PoE power budget	Power supply AC/DC	Optional backup PSU	Height rack units
AC models									
OmniSwitch 6855-14	8	4	2**	0	0	60 W	AC	AC or DC	1
OmniSwitch 6855-P14	8	12	2**	0	0	185 W***	AC	AC	1
OmniSwitch 6855-24	16	4	0	4	0	60 W	AC	AC or DC	1
OmniSwitch 6855-U10	2	0	8**	0	0	NA	AC	AC or DC	1
OmniSwitch 6855-U24X	0	0	22**	2	2*	NA	AC	AC or DC	1
DC models									
OmniSwitch 6855-14D	8	4	2**	0	0	60 W	-48 V/ 24 V DC	AC or DC	1
OmniSwitch 6855-U10D	2	0	8**	0	0	NA	-48 V/ 24 DC	AC or DC	1
OmniSwitch 6855-24D	20	0	0	4	0	NA	-48 V DC	AC or DC	1
OmniSwitch 6855-24DL	20	0	0	4	0	NA	24 V DC	AC or DC	1
OmniSwitch 6855-U24XD	0	0	22**	2	2*	NA	-48 V DC	AC or DC	1
OmniSwitch 6855-U24XDL	0	0	22**	2	2*	NA	24 V DC	AC or DC	1

Remarks:

\*Ports can be used for uplink or stacking.

\*\*SFP port supports both Fast Ethernet and Gigabit Ethernet transceivers.

\*\*\*185 W at up to 60°C; 66 W at higher temperatures

NA - not available