

Data Sheet

Professional 1U RJ45
Layer 2 Network Switches

Professional 10 to 48 Port Edge Network Switch with Features for Critical Projects

Reliable and powerful, the BCD-ALE-OS6450 enables a highly effective edge network switch solution with up to 48 gigabit RJ45 ports. A 780W of PoE power can be increased with up to (2) external power supplies, and is available to power a variety of network devices. Optimized to provide a scalable and adaptable solution, this network switch allows for small to midrange networks to run flawlessly. Advanced Layer 2 and basic Layer 3 functionalities enable smaller projects to use top of the line features.

- Enable maximum network performance with 131 Mpps switch frame rates and 176Gb/s switching capacity.
- Up to 48 1GbE ports provide up to 30W of PoE for added power to network devices.
- Out of the box simplicity is guaranteed with automated provisioning.
- Support for up to 4000 VLANs provide efficient network segmentation for reliability and video data traffic optimization.



BCD-ALE-OS6450-P10



BCD-ALE-OS6450-P48

KEY FEATURES

- Up to 48 1GbE PoE ports
- Dynamic PoE allocation
- Resilient hardware system structure for greater network stability



Up to 48 Total Gigabit Ports



**131Mp/s Switch Frame Rate and
176Gb/s Switching Capacity**



Up to 780W of PoE+ power



**3-Year, 24/7 Support with
Advanced Next-Day Replacement**

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SYSTEM	
Maximum Number of Ports	Up to (48) 1GbE PoE Ports and (2) 1G/10G SFP+ uplink ports
Max PoE Budget	780W
Total MAC Addresses	16,000
IPv4/IPv6 Routes	256
IPv4/IPv6 Interfaces	128
Max Raw Fabric Capacity	131Mp/s
Max Switching Capacity	176Gb/s
Warranty	3-Year, 24/7 Support with Advanced Next-Day Replacement
MECHANICAL	
Form Factor	1U Rackmount
Power Supply(s)	(1) Internal 900W 100-240VAC, Up to (2) External 900W 90-240VAC
Heat Dissipation	Up to 2663 BTU/h
Operating Temperature	(Min) 32°F - (Max) 113°F [(Min) 0°C - (Max) 45°C]
Operating Humidity	5 ~ 95% Non-condensing
Max. Dimensions (WxDxH)	17.32" x 15.4" x 1.73" (440mm x 391mm x 44mm)
Max. Weight	15 lbs (6.8 kg)
Regulatory	47 CRF FCC Part 15: 2015 Subpart B (Class A) VCCI (Class A limits. Note: Class A with UTP cables) 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) CE-Mark: Marking for European countries (Class A limits. Note: Class A with UTP cables) EN 50581: Standard for technical documentation for RoHS recast EN 55022 (EMI and EMC requirement) EN 55024: 2010 (ITE Immunity characteristics) 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 IEEE802.3: Hi-Pot Test (2250 VDC on all Ethernet ports)
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 802.1s (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 802.3az (Energy Efficient Ethernet)



BCD-ALE-OS6450-P24

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