

BCD-ALE-6450 Series

1U 1GbE RJ45 / SFP+ Layer 2 Network Switches

PROFESSIONAL 10 TO 48 PORT EDGE NETWORK SWITCH WITH FEATURES FOR CRITICAL PROJECTS

Reliable and powerful, the BCD-ALE-6450 enables a highly effective edge or core network switch solution with up to 48 1GbE RJ45 ports or 24 1GbE SFP+ ports. A 780W PoE budget 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.



BCD-ALE-6450-P24



BCD-ALE-6450-P48



BCD-ALE-6450-P10

KEY FEATURES

-  Up to 48 Total Gigabit Ports
-  131Mp/s Switch Frame Rate and 176Gb/s Switching Capacity
-  Resilient Hardware System Structure for Greater Network Stability
-  Up to 780W of PoE Power
-  3-Year Warranty 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

120W (8 Port), 380W (24 Port), 780W (48 Port)

Total MAC Addresses

16,000

IPv4/IPv6 Routes

256

IPv4/IPv6 Interfaces

128

Max Raw Fabric Capacity

131Mp/s

Max Switching Capacity

176Gb/s

MECHANICAL

Form Factor

Small Form or 1U Rackmount

Power Supply(s)

(1) Internal 150W | 100-240VAC (8 Port PoE Models)

(1) Internal 525W | 100-240VAC (24 Port PoE Models)

(1) Internal 900W | 100-240VAC (48 Port PoE Models)

Up to (2) Internal 90W | 100-240VAC (BCD-ALE-6450-24F)

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)

19" x 15.4" x 1.73" (482.6mm x 391mm x 44mm)

Max. Weight

15 lbs (6.8 kg)

Warranty

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

REGULATORY & STANDARDS

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)