

BCD-ALE-OS6865 Series

Environmentally Hardened RJ45/SFP+ SPB Network Switches

ENVIRONMENTALLY HARDENED HPOE AND POE+ GIGABIT NETWORK SWITCHES

For the toughest projects, the BCD-ALE-OS6865 Series of environmentally hardened network switches brings the reliability, performance, and durability needed to endure in any environment. Supporting IEEE 802.1aq and Shortest Path Bridging, this switch easily manages any edge device.

In addition to having up to four 75W HPoE ports and eight PoE+ ports, along with a wide temperature range of -40°F to 165°F, the BCD-ALEOS6865 switches can be optimized for any harsh environment IP surveillance network. Additional security features, including auto sensing IEEE 802.1X, multi-VLAN support, DHCP snooping, and Address Resolution Protocols help ensure the safety of the network.

- Enable maximum network performance with 224Gb/s fabric rates and 208Gb/s switching capacity.
- Shortest Path Bridging (SPB) enables high network availability and maximum use of all physical connections and routed services.
- A fanless, convection cooled rugged chassis guarantees power efficiency.
- Out of the box simplicity is guaranteed with automated provisioning.



BCD-ALE-OS865-U28X









BCD-ALE-OS6865-P16X



BCD-ALE-OS6865-U12X

KEY FEATURES

-  Up to 12 Gigabit Ports, 20 SFP Ports, and 8 HPoE Ports.
-  224Gb/s Raw Fabric Capacity and 208Gb/s Switching Capacity
-  Rugged Chassis Operates Between -40°F to 165°F and Withstands Shock and Vibration
-  Ease of Deployment Enables Convenient Installations for Any Project.
-  Up to 300W of PoE+ Power
-  3-Year Warranty with Advanced Next-Day Replacement

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SYSTEM

Maximum Number of Ports

Up to (12) RJ45, (20) SFP, (4) 1G/10G SFP+, (4) 75W HPoE, (8) PoE+

Management Ports

(1) USB and (1) Console

Max PoE Budget

300W

Total MAC Addresses

48,000

Total IPv4 Routes

64,000

Max Raw Fabric Capacity

224Gb/s

Max Switching Capacity

208Gb/s

Flash

2GB

RAM

2GB

MECHANICAL

Form Factor

Small Form or 1U Rackmount

Maximum Power Consumption

75.9W

Power Supply(s)

Up to (2) 180W | 100-240VAC

Heat Dissipation

170.6 BTU/h

Operating Temperature

(Min) -40°F - (Max) 165°F [(Min) -40°C - (Max) 74°C]

Operating Humidity

5 ~ 95% Non-condensing

Dimensions (WxDxH)

BCD-ALE-OS6865-P16X/U12X 8.49" x 10.24" x 3.47" (216mm x 260mm x 88mm)
BCD-ALE-OS6865-U28X 17.32" x 10.63" 1.73" (440mm x 270mm x 44mm)

Max. Weight

13.85 lbs (6.28 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, with UTP Cables) ICES-003:2012 Issue 5, Class A AS/NZS 3548 (Class A) – C-Tick CE marking for European countries (Class A) EN50581 (RoHS Recast) EN 55022 (EMI & EMC requirement) EN 55024 (Immunity Characteristics) EN 61000-3-2 (Harmonic Current emissions) EN 61000-3-3 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 (Surge Immunity, Class 4) EN 61000-4-6 EN 61000-4-8 EN 61000-4-11 IEEE802.3: Hi-pot Test (2.25 KV DC on all Ethernet Ports)

IEEE Standards

IEEE 802.1D STP IEEE 802.1p CoS IEEE 802.1Q VLANs IEEE 802.1ab (LLDP) IEEE 802.1ag (OA&M) IEEE 802.1ad Provider Bridges Q-in-Q/ VLAN stacking IEEE 802.1ak (Multiple VLAN Registration Protocol (MVRP) IEEE 802.1aq Shortest Path Bridging (SPB) IEEE 802.1s MSTP IEEE 802.3i 10BASE-T IEEE 802.1w RSTP IEEE 802.3x Flow Control IEEE 802.3z Gigabit Ethernet IEEE 802.3ab 1000Base-T IEEE 802.3ac VLAN Tagging IEEE 802.3ad/802.1AX Link Aggregation IEEE 802.3ae 10 GigE IEEE 802.3af Power over Ethernet IEEE 802.3at PoE Plus IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.1x-2004 IEEE 1588-2008 (PTP)