

**Data Sheet**

## Environmentally Hardened Gigabit 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-ALE-OS6865 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.

**KEY FEATURES**

- Versatile port count to meet project needs
- Rugged chassis operates between -40°F to 165°F and withstands shock and vibration
- Hot swappable redundant power supplies
- Ease of deployment enables convenient installations for any project.



**Up to 12 Gigabit Ports, 20 SFP Ports, and 8 HPoE Ports.**



**224Gb/s Raw Fabric Capacity and 208Gb/s Switching Capacity**



**Up to 300W of PoE+ power**



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



BCD-ALE-OS6865-P16X



BCD-ALE-OS865-U28X

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SYSTEM	
<b>Maximum Number of Ports</b>	Up to (12) RJ45, (20) SFP, (4) 1G/10G SFP+, (4) 75W HPoE, (8) PoE+
<b>Management Ports</b>	(1) USB and (1) Console
<b>Max PoE Budget</b>	300W
<b>Total MAC Addresses</b>	48,000
<b>Total IPv4 Routes</b>	64,000
<b>Max Raw Fabric Capacity</b>	224Gb/s
<b>Max Switching Capacity</b>	208Gb/s
<b>Flash</b>	2GB
<b>RAM</b>	2GB
<b>Warranty</b>	3-Year, 24/7 Support with Advanced Next-Day Replacement
MECHANICAL	
<b>Form Factor</b>	Small Form or 1U Rackmount
<b>Maximum Power Consumption</b>	75.9W
<b>Power Supply(s)</b>	Up to (2) 180W   100-240VAC
<b>Heat Dissipation</b>	170.6 BTU/h
<b>Operating Temperature</b>	(Min) -40°F - (Max) 165°F [(Min) -40°C - (Max) 74°C]
<b>Operating Humidity</b>	5 ~ 95% Non-condensing
<b>Dimensions (WxDxH)</b>	BCD-ALE-OS6865-P16X/U12X 8.49" x 10.24" x 3.47" (216mm x 260mm x 881mm) BCD-ALE-OS6865-U28X 17.32" x 10.63" 1.73" (440mm x 270mm x 44mm)
<b>Max. Weight</b>	13.85 lbs (6.28 kg)
<b>Regulatory</b>	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)
<b>IEEE Standards</b>	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)



BCD-ALE-OS6865-U12X

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