

Data Sheet

Enterprise 1U RJ45/SFP
Layer 3 Network Switches

High Performance and High Availability Enterprise Multigigabit and 10GbE 1U Rackmount PoE+ Network Switches

The BCD-ALE-OS6860 multigigabit and 10GbE PoE+ network switches are powerful and versatile to fulfill a range of purposes. With advanced security features including IEEE 802.1AE MACSec encryption to secure the edge of a network, this network switch takes on whatever task it needs to complete. With a vast PoE budget of 1500W, as well as up to 48 gigabit ports, this switch can be deployed as an edge switch or a core switch for a small network.

- Provide high-end network performance with 264Gb/s raw fabric capacity, 256Gb/s switching capacity, and a throughput of 190.6Mpps with a 64-byte packet.
- IEEE 802.1aq Shortest Path Bridging (SPB) enables high network availability and maximum use of all physical connections and routed services.
- IEEE 802.3af and 802.3at compliant 30W of PoE+ on all ports provides high density power to multiple video surveillance cameras. Onboard advanced hardware helps optimize video data transfer.
- High availability and network optimization features include redundant power supplies and application monitoring.

KEY FEATURES

- 24 PoE, 48 PoE, and 28 GbE SFP Port configurations
- Shortest Path Bridging provides high availability
- Hot-swappable power supplies
- Resilient hardware system structure for greater network stability



**Up to 48 Total Gigabit Ports
with 4 SFP+ Uplink Ports**



**264Gb/s Raw Fabric Capacity and
256Gb/s Switching Capacity**



Up to 1500W of PoE+ power



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



BCD-ALE-OS6860E-P24



BCD-ALE-OS6860E-P48

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SYSTEM	
Maximum Number of Ports	(48) PoE, (4) 1G/10G SFP+ or (28) SFP, (4) SFP+
MACSec Capable Ports	(4) 10G SFP+
Management Ports	Up to (1) RS-232 and (1) Console Management Port, (1) Ethernet Management Port on BCD-ALE-OS6860E-U28
Total PoE Budget	1500W with (2) 920W power supplies
PoE per Port	Up to 75W per port
Total number of IPv4 Routes	64,000
Max Raw Fabric Capacity	254Gb/s
Max Switching Capacity	256Gb/s
Throughput	190.6Mpps (64-byte packet)
File System Flash	2GB
RAM	2GB
Total MAC Addresses	48,000
Warranty	3-Year, 24/7 Support with Advanced Next-Day Replacement
MECHANICAL	
Form Factor	1U Rackmount
Maximum Power Consumption	Up to 900W
Power Supply(s)	Up to (2) 920W 100-240VAC
Heat Dissipation	Up to 241.6 BTU/h
Operating Temperature	(Min) 32°F - (Max) 113°F [(Min) 0°C - (Max) 45°C]
Operating Humidity	5 ~ 95% Non-condensing
Dimensions (WxDxH)	17.33" x 13.78" x 1.73" (440mm x 350mm x 44mm)
Max. Weight	14.0 lbs (6.35 kg)
Regulatory	47 CRF FCC Part 15: 2015 Subpart B (Class A) ICES-003:2012 Issue 5, Class A ANSI C63.4-2009 VCCI (Class A, with UTP Cables) AS/NZS 3548 (Class A) – C-Tick CE marking for European countries (Class A, with UTP Cables) CE EN 55032 (EMI & EMC) EN 55024 (Immunity) EN 50581 (RoHS Recast) EN 61000-3-2 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 IEEE 802.3: Hi-Pot Test (2250 VDC on all Ethernet ports)
IEEE Standards	IEEE 802.1D STP IEEE 802.1p CoS IEEE 802.1Q VLANs IEEE 802.1ab (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 802.3bz 2.5/5 GigE IEEE 802.3ba 40GBASE-X IEEE 802.1x-2004 IEEE 802.1ae MAC Security IEEE 1588-2008 (PTP)