

## Data Sheet

Enterprise 10GbE/40GbE SFP+/QSFP+  
Core Network Switch

### Mission Critical 10GbE/40GbE Network Switches for High Throughput

The BCD-DNS-N4000 is a mission critical 10GbE switching solution that provides support for up to 40GbE uplinks. These powerful switches provide high performance with a data rate up to 1.28Tbps alongside a 952Mpps forwarding rate. With reliable, effective performance, these network switches are ideal for functioning at the core of any high bandwidth core network.

Dual, hot-swappable internal 80PLUS-certified power supplies provide high availability as well as power efficiency. The architecture of this network switch allows for management of up to 12 switches from a single IP address.

#### KEY FEATURES

- 24 SFP+ with 2 QSFP+ and 48 SFP+ with 4 QSFP+ ports configurations
- 10GbE networking for core networks
- Hot swappable redundant power supplies
- Ease of deployment enables convenient installations for any project.



**Up to 48 SFP+ Ports with  
4 QSFP+ Ports**



**1.28Tbps Switch Fabric Capacity  
and 952Mpps Forwarding Rate**



**5-Year Warranty**



**FOR MORE INFORMATION:** [bcdvideo.com](http://bcdvideo.com) | [sales@bcdvideo.com](mailto:sales@bcdvideo.com) | +1.847.205.1922 **TECH SUPPORT:** [support@bcdvideo.com](mailto:support@bcdvideo.com) | +1.844.462.2384

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SYSTEM	
<b>Maximum Number of Ports</b>	Up to (48) 10GbE SFP+ Ports, (4) 40GbE QSFP+ Ports
<b>Static Routes</b>	1,024 (IPv4), 1,024 (IPv6)
<b>Dynamic Routes</b>	8,160 (IPv4), 4,096 (IPv6)
<b>Switch Fabric Capacity</b>	Up to 1.2Tbps
<b>Forwarding Rate</b>	Up to 952Mpps
<b>Flash Memory</b>	256MB
<b>CPU Memory</b>	2GB
<b>Total MAC Addresses</b>	131,072
<b>Warranty</b>	5-Year Warranty
MECHANICAL	
<b>Form Factor</b>	1U Rackmount
<b>Maximum Power Consumption</b>	220W
<b>Power Supply(s)</b>	(2) Internal 460W   100-240VAC
<b>Max. Heat Dissipation</b>	754.82 BTU/h
<b>Operating Temperature</b>	(Min) 32°F - (Max) 113°F [(Min) 0°C - (Max) 45°C]
<b>Operating Humidity</b>	5 - 90% Non-condensing
<b>Dimensions (WxDxH)</b>	17.08" x 18.11" x 1.71" (434mm x 433.83mm x 43.5mm)
<b>Max. Weight</b>	23.28 lbs (10.56 kg)
<b>Regulatory</b>	Australia/New Zealand: ACMA RCA Class A, Canada: ICES Class A; cUL, China: CCC Class A; NAL, Europe: CE Class A, Japan: VCCI Class A, USA: FCC Class A; NRTL UL; FDA 21 CFR 1040.10 and 1040.11, Eurasia Customs Union: EAC, Germany: GS mark, RoHS, EU WEEE, EU Battery Directive, REACH
<b>IEEE Standards</b>	802.1AB LLDP, 802.1D Bridging, Spanning tree, 802.1p Ethernet Priority, 802.1Q VLAN Tagging, Double VLAN Tagging, GVRP, 802.1S Multiple Spanning Tree (MSTP), 802.1v Protocol-based VLANs, 802.1W Rapid Spanning Tree (RSTP), 802.1X Network Access Control Auto VLAN, 802.2 Logical Link Control, 802.3 10BASE-T, 802.3ab Gigabit Ethernet (1000BASE-T), 802.3ad Link Aggregation with LACP, 802.3ae 10 Gigabit Ethernet (10GBASE-X), 802.3at PoE+, 802.3AX LAG Load Balancing 802.3az Energy Efficient Ethernet, 802.3u Fast Ethernet (100BASE-TX), 802.3x Flow Control, 802.3z Gigabit Ethernet (1000BASE-X)