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Overview

The Cisco Nexus 5696Q is a high-density, wire-rate, Layer 2 and Layer 3 switch. It offers Virtual Extensible LAN (VXLAN) support with 10, 40, and 100 Gigabit Ethernet (GE) ports. These switches provide modular expansion slots for increased scalability, providing investment protection for future technologies. They also facilitate high scalability, operational efficiency, and design flexibility for traditional, virtualized, and cloud environments.

Quick Specification

Product Code	N5K-C5696Q
Device Type	Switch - L3 - managed
Enclosure Type	Rack-mountable 4U
Subtype	40 Gigabit Ethernet
Performance	Bandwidth: 7.68 Tbps
Capacity	ARP entries: 256000 Virtual interfaces (VLANs): 4096 ACL entries: 4000 Multiple Spanning Tree Protocol instances: 64 Host table entries (IPv4): 32000 Host table entries (IPv6): 8000 Multicast entries (IPv4): 8000 IGMP snooping entries: 8000 Virtual Routing and Forwarding (VRF) entries: 4000 Equal-Cost Multipathing (ECMP) ways: 64
MAC Address Table Size	256K entries
Jumbo Frame Support	9216 bytes
Power	AC 120/230 V (50/60 Hz)
Physical dimensions (H x W x D)	17.3 in x 30 in x 7 in

Product Details:

The Front Panel:



The Accessories

Modules and Cables:

Models	Description
Cisco SBS - Extended Service Agreement - RPL - 3 yr - NBD 2	Cisco Small Business Pro Service extended service agreement - 3 years
Cisco SBS - Extended Service Agreement - RPL - 3 yr - NBD 1	Cisco Small Business Pro Service extended service agreement - 3 years
Tripp Lite Cat5 patch cable - 7 ft	Tripp Lite 7ft Cat5e / Cat5 Snagless Molded Patch Cable RJ45 M/M Blue 7' - patch cable - 7 ft - blue
15FT CAT5E CAT5 BLUE MOLDED SNAGLESS RJ45 PATCH CO	Tripp Lite 15ft Cat5e / Cat5 Snagless Molded Patch Cable RJ45 M/M Blue 15' - patch cable - 15 ft - blue
Tripp Lite patch cable - 25 ft	Tripp Lite 25ft Cat5e / Cat5 Snagless Molded Patch Cable RJ45 M/M Blue 25' - patch cable - 25 ft - blue
Tripp Lite 6ft Cat6 Gigabit Snagless Molded Slim UTP Patch Cable RJ45 M/M Blue 6' - patch cable - 6 ft - blue	Tripp Lite 6ft Cat6 Gigabit Snagless Molded Slim UTP Patch Cable RJ45 M/M Blue 6' - patch cable - 6 ft - blue
Cisco Direct-Attach Breakout Cable - network cable - 10 ft - orange	Cisco Direct-Attach Breakout Cable - network cable - 10 ft - orange
Cisco Active Optical Cable - 40GBase direct attach cable - 30 m	Cisco Active Optical Cable - 40GBase direct attach cable - 30 m
Cisco Direct-Attach Breakout Cable - network cable - 23 ft - blue	Cisco Direct-Attach Breakout Cable - network cable - 23 ft - blue
Logitech Signature M650 for Business - mouse - Bluetooth - graphite	Logitech Signature M650 for Business - mouse - Bluetooth - graphite
Logitech for Business MX Keys Bolt Combo Keyboard-Mouse - Logi Bolt	Logitech MX Keys Combo for Business - keyboard and mouse set - graphite

Logitech MK550 Wireless Wave Keyboard and Mouse Combo - 920-002555	Logitech Wireless Wave Combo MK550 - keyboard and mouse set - English
Tripp Lite KVM Console to USB 2.0 Portable Laptop Crash Cart Adapter with File Transfer and Video Capture, 1920 x 1200 @ 60 Hz - KVM switch - 1 ports - TAA Compliant	Tripp Lite KVM Console to USB 2.0 Portable Laptop Crash Cart Adapter with File Transfer and Video Capture, 1920 x 1200 @ 60 Hz - KVM switch - 1 ports - TAA Compliant
Tripp Lite N785-001-SC - media converter	Tripp Lite Fiber Optic 10/100/1000 to 1000BaseLX SC Gigabit Multimode Media Converter 2km 1310nm - fiber media converter - 10Mb LAN, 100Mb LAN, GigE
Logitech C925e Webcam - 1920x1080 - USB 2.0 - 960-001075	Logitech Webcam C925e - webcam
Targus USB-C Universal Dual Monitor Dock 2xHDMI w/65W PD - DOCK310USZ	Targus Universal DV4K - docking station - USB-C - 2 x HDMI - GigE
Thunderbolt 3 Dock - Dual Monitor 4K 60Hz Laptop Docking Station with	StarTech.com Thunderbolt 3 Dock, Dual Monitor 4K 60Hz TB3 Laptop Docking Station with DisplayPort, 85W Power Delivery, 3x USB 3.0, Gigabit Ethernet (GbE), Thunderbolt 3 Dock with PD - Dual 4K 60Hz TB3 Dock (TB3DK2DPPD) - docking station - USB-C - DP - GigE
APC NetShelter AR3100 SX 42U Enclosure with Sides - BLACK	APC NetShelter SX Enclosure with Sides - rack - 42U
Jabra Evolve2 75 Wireless Stereo MS Headset USB-A w/BT Link - Black	Jabra Evolve2 75 - headset
Jabra Evolve2 65 Wireless Headset w/Link380a - USB-A - Stereo UC - Blk	Jabra Evolve2 65 UC Stereo - headset

Get more information:

Do you have any question about the N5K-C5696Q?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Type	N5K-C5696Q
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Enclosure Type	Rack-mountable 4U
Subtype	40 Gigabit Ethernet
Performance	Bandwidth: 7.68 Tbps
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MAC Address Table Size	256K entries



Jumbo Frame Support	9216 bytes
Routing Protocol	IS-IS, RIP-2, BGP, EIGRP, HSRP, IGMP, VRRP, OSPFv2, PIM-SM, EIGRP for IPv6, OSPF for IPv6, static IPv4 routing, static IPv6 routing, ECMP, policy-based routing (PBR), Bidirectional Forwarding Detection (BFD), BGP for IPv6
Features	<p>Routing</p> <p>layer 3 switching</p> <p>DHCP support</p> <p>VPN support</p> <p>ARP support</p> <p>VLAN support</p> <p>Syslog support</p> <p>Broadcast Storm Control</p> <p>IPv6 support</p> <p>Multicast Storm Control</p> <p>Unicast Storm Control</p> <p>Virtual Route Redundancy Protocol (VRRP) support</p> <p>Multiple Spanning Tree Protocol (MSTP) support</p> <p>Data Center Bridging Exchange (DCBX) support</p> <p>Access Control List (ACL) support</p> <p>Quality of Service (QoS)</p> <p>RADIUS support</p> <p>SSH support</p> <p>Equal-Cost Multipath (ECMP)</p> <p>Bidirectional Forwarding Detection (BFD)</p> <p>STP Root Guard, Unicast Reverse Path Forwarding (URPF)</p> <p>Link Aggregation Control Protocol (LACP)</p> <p>Per-VLAN Rapid Spanning Tree (PVRST)</p> <p>Hot Standby Router Protocol (HSRP) support</p> <p>Management Information Base (MIB)</p> <p>Multicast VLAN Registration (MVR)</p> <p>Virtual Routing and Forwarding (VRF)</p> <p>static routing</p> <p>Transparent (N_Port ID Virtualization - NPIV) mode support</p> <p>Registered State Change Notification (RSCN) support</p> <p>Call Home function support, FCoE forwarding</p> <p>STP PortFast, Class of Service (CoS)</p> <p>port exhaust</p> <p>Multicast Source Discovery Protocol (MSDP)</p> <p>SNMP support</p> <p>Virtual PortChannel (vPC) technology</p> <p>4 fans</p>
Compliant Standards	<p>IEEE 802.3</p> <p>IEEE 802.1D</p> <p>IEEE 802.1Q</p> <p>IEEE 802.1p</p>





	<p>IEEE 802.3x</p> <p>IEEE 802.3ad (LACP)</p> <p>IEEE 802.1w</p> <p>IEEE 802.3ae</p> <p>IEEE 802.1s</p> <p>IEEE 802.1Qbb</p> <p>IEEE 802.1QaZ</p>
Installed Modules Qty (Max)	0 (installed) / 8 (max)
Power Device	Internal power supply - hot-plug
Installed Qty	6 (installed) / 6 (max)
Power Redundancy	Yes
Power Redundancy Scheme	N+1
Power Provided	1100 Watt
Voltage Required	AC 120/230 V (50/60 Hz)
Compliant Standards	<p>CISPR 22 Class A</p> <p>CISPR 24</p> <p>EN 61000-3-2</p> <p>EN 61000-3-3</p> <p>EN55024</p> <p>EN55022 Class A</p> <p>AS/NZS 60950-1</p> <p>EMC</p> <p>ICES-003 Class A</p> <p>AES</p> <p>FCC CFR47 Part 15</p> <p>UL 60950-1 Second Edition</p> <p>RoHS</p> <p>GB 4943</p> <p>CAN/CSA C22.2 No. 60950-1</p> <p>Directive 2004/108/EC</p> <p>EN 60950-1 Second Edition</p> <p>IEC 60950-1 Second Edition</p> <p>Directive 2006/95/EC</p> <p>VCCI Class A</p> <p>CNS 13438(95) Class A</p> <p>KN22 Class A</p> <p>EN 300386</p> <p>AS/NZS CISPR 22</p>
Physical dimensions (H x W x D)	17.3 in x 30 in x 7 in
Service & Support	Limited warranty - advance parts replacement - 1 year - response time: 10 days
Min Operating Temperature	32 °F
Max Operating Temperature	104 °F





Humidity Range Operating	5 - 95% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	158 °F

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