ComX Computers
Product Specification Sheet

C5N4W

Dell PowerConnect 6224P 24 GbE Port Managed Switch with PoE support

Product Overview

Dell PowerConnect 6224P 24 GbE Port Managed Switch with PoE support, 10GbE and stacking capable, N096224P02E, 24x Gigabit Ethernet Ports, 4x SFP combo Ports



Specifications

Overview:

The PowerConnect 6224P Power over Ethernet (PoE) 24-port Gigabit Ethernet Layer 3 Switch provides resilient stacking and power over Ethernet capabilities. This switch has the following advantages:

- Ideal for power-dependant network applications.
- Optional 10 Gigabit Ethernet uplinks.
- Supports 10 GBase T and small form-factor pluggable + (SFP+) 10 GE Modules.

Features:

Advanced features with superb performance
The PowerConnect 6224P delivers a comprehensive feature set with superb performance for the small to medium enterprise. This 24-port Gigabit Ethernet Layer 3 switch is stackable and offers optional 10 Gigabit Ethernet uplinks and supports the latest version of the Internet Protocol-IPv6-enabling broader worldwide scalability. Power over Ethernet capabilities provide support for power-dependant network applications including wireless, VoIP, video-conferencing and badge reading. The PowerConnect 6224P offers Enterprise class availability with failover times that provide for sub-250ms failover of any stacked switch, including master failure under all configurations. Furthermore, high performance stacking is supported for up to twelve systems, and advanced security and Quality of Service (QoS) features make this switch ideal for applications such as Voice over IP, Layer 3 routing, High Performance Cluster Computing (HPCC), and iSCSI storage. Advanced monitoring functions include sflow support, SNMP capabilities and a full GUI interface with graphical reporting. In the event of a switch failure, high availability functions maintain traffic flow in the stack, including mission-critical voice and storage sessions.

High Density
Delivering significant rack density, the PowerConnect 6224P is designed to give users the flexibility to maximize server and workstation connectivity in a 1U form factor. Up to 576 servers and/or clients can be connected in a stack of 12 62xx series switches to provide the maximum density, flexibility and manageability, and the stack is built on a 10/100/1000BASE-T Gigabit Ethernet switch.

High Performance Stacking
The PowerConnect 6248P switch supports up to four 10 Gigabit fiber (SFP+) & two 10GBase-T copper Ethernet uplinks for connectivity directly to 10GE servers, routers, enterprise backbones and data centers.

Power over Ethernet
Power over Ethernet capabilities allow the 6224P to provide up to 15.4 Watts of power for network attached devices like wireless local area networks (WLAN) access points and VoIP handsets.

Optional 10 Gigabit Ethernet
The PowerConnect 6248P switch supports up to four 10 Gigabit fiber (SFP+) & two 10GBase-T copper Ethernet uplinks for connectivity directly to 10GE servers.

Advanced Layer 3 Capabilities
The PowerConnect 6224P supports advanced Layer 3 routing and multicast protocols to help reduce congestion and manage traffic in the network. Frequently used LAN routing protocols such as Routing Information Protocol (RIP) v1/v2, Open Shortest Path First (OSPF) v2/v3, Virtual Router Redundancy Protocol (VRRP), Internet Group Management Protocol (IGMP), Distance Vector Multicast Routing Protocol (DVMRP), Protocol Independent Multicast (PIM) and Link Layer Discovery Protocol - Media Endpoint Discovery (LLDP-MED), are also supported.

Advanced Quality of Service
The PowerConnect 6224P offers flexibility in QoS by giving network administrators the ability to prioritize time-critical network traffic based on a variety of user-defined criteria. Administrators can expedite traffic based on level 2 (L2) or level 3 (L3) information, such as IP QoS, and provide greater control over traffic flow within the network. Voice virtual LANs (VLANs) are provided specifically for VoIP applications.

Advanced Security
Access Control Lists (ACLs) can be supported on the switch, allowing the user to perform deep packet inspection. 802.1x port authentication offers both single and multiple host access. Further security is provided through Denial of Service (DoS) Attack Prevention, whereby the switch can help protect against common network and CPU attacks.

IP Version 6 Certified
IPv6 is version six of the Internet Protocol that has been in development for over 20 years. IPv6 has been designed to address IP address limitations of the previous version of the Internet Protocol, enabling an increased number of unique IP addresses for broader scalability worldwide, now and in the future.

Specifications:

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Specifications	
Product Code	C5N4W

Port Attributes	24 10/100/1000BASE-T auto-sensing Gigabit Ethernet switching ports
	Power over Ethernet: Up to 15.4 watts per port
	4 SFP combo ports for fiber media support
	10 Gigabit Ethernet uplink modules (optional)
	48Gbps Stacking module (optional)
	Auto-negotiation for speed, duplex mode and flow control
	Auto MDI/MDIX
	Port mirroring
	Flow-based port mirroring
	Broadcast storm control
	sFlow
	iSCSI Auto Configuration
Performance	Switch Fabric Capacity 136 Gb/s
	Forwarding Rate 95 Mpps
	Up to 8, 000 MAC Addresses
	256MB of CPU SDRAM
	32MB of Flash Memory

Availability	Spanning Tree (IEEE 802.1D) and Rapid Spanning Tree (IEEE 802.1w) with Fast Link Support
	Multiple spanning trees (IEEE 802.1s)
	Supports Virtual Redundant Routing Protocol (VRRP)
	External redundant power support with PowerConnect RPS-600 or EPS-470 (sold separately)
	Cable diagnostics
	Optical transceiver diagnostics
	Link Dependency - Can up/down links based on other port events
	Layer 3 Routing Protocols
	Static routes Routing Information Protocol (RIP) v1/v2
	Open Shortest Path First (OSPF) v1/v2/v3
	Classless Inter-Domain Routing (CIDR)
	Internet Control Message Protocol (ICMP)
	ICMP Router Discover Protocol (IRDP)
	Virtual Redundant Routing Protocol (VRRP)
	Address Resolution Protocol (ARP)
	Internet Group Management Protocol (IGMP) v2
	Distance-Vector Multicast Routing Protocol (DVMRP)
	DHCP - Helper/Relay/Snooping
	Layer 3 Routing Performance
	Up to 224 IPv4 routes, up to 128 IPv6 routes
	Up to 128 RIP Routing Interfaces
	Up to 128 OSPF Routing Interfaces, up to 128 OSPF Areas, up to 128 Routing Interfaces per OSPF Area, up to 32 routes for ECMP Routing, up to 2 next hops per ECMP
	Up to 128 VLAN Routing Interfaces
	Up to 256 Multicast Forwarding Entries
	Up to 896 ARP entries, Up to 512 NDP entries
VLAN	VLAN support for tagging and port-based as per IEEE 802.1Q
	Double VLAN tagging (QinQ)
	Up to 1024 VLANs supported
	Dynamic VLAN with GVRP support
	Voice VLAN support
	Custom Protocol VLANs

Quality of Service	Layer 2 Trusted Mode (IEEE 802.1p tagging)
	Layer 3 Trusted Mode (DSCP)
	Layer 4 Trusted Mode (TCP/UDP)
	Advanced Mode using Layer 2/3/4 flow-based Policies, including metering/rate limiting, marking and bandwidth guarantees, up to 100 ACLs can be used for QoS flow identification via Class-maps
	8 Priority Queues per Port
	Adjustable Weighted-Round-Robin (WRR) and Strict Queue Scheduling
	Port-based QoS Services Mode
	Flow-based QoS Services Mode
Multicast	Static IP Multicast
	Dynamic Multicast Support - 1024 Multicast groups supported in IGMP Snooping
	IGMP snooping for IP multicast support
	IGMP Querier
	Protocol Independent Multicast (PIM-DM, PIM-SM)
Security	IEEE 802.1x based edge authentication -- supports single and multiple host access, guest access, voice authorization, and Microsoft Active Directory, and multiple authenticators per port.
	Switch access password protection
	User-definable settings for enabling or disabling Web, SSH, Telnet, SSL management access
	Port-based MAC Address alert and lock-down
	IP Address filtering for management access via Telnet, HTTP, HTTPS/SSL, SSH and SNMP
	RADIUS and TACACS+ remote authentication for switch management access
	Up to 100 Access Control Lists (ACLs) supported, up to 127 Access Control Entries (ACEs) per ACL or per port.
	SSLv3 and SSHv2 encryption for switch management traffic
	Management access filtering via Management Access Profiles
	Custom Login Banners
	Dynamic ARP Inspection
	Captive Portal Authentication
Other Switching	Link Aggregation with support for up to 18 static aggregated links, 8 dynamic aggregated links per switch and up to 8 member ports per aggregated link, LACP support (IEEE 802.3ad), LLDP-MED
	Support for unicast NLB (multicast NLB not supported)

Management	Web-based management interface
	Industry-standard CLI accessible via Telnet or Local Serial Port
	SNMPv1, SNMP v2c and SNMPv3 supported
	4 RMON groups supported (history, statistics, alarms and events)
	TFTP transfers of firmware and configuration files
	Dual Firmware images on-board
	Multiple Configuration file upload/download supported
	Statistics for error monitoring and performance optimization including port summary tables
	BootP/DHCP IP address management supported
	Syslog remote logging capabilities
	Temperature sensors for environmental monitoring
Chassis	440 x 387 x 43.2 mm (W x D x H)
	17.3" x 15.2" x 1.7"
	1U, rack-mounting kit included
	Approximate weight (without modules): 5.54 kg, 12.2lbs
	Approximate weight (with modules): 5.70 kg, 12.6lbs
Hardware	256MB of CPU SDRAM
	32MB of Flash Memory

MIB Support	RFC 1213 MIB II
	RFC 1215 Standard Traps
	RFC 1286 Bridge MIB
	RFC 1442 SMIv2 (SNMPv2 MIB)
	RFC 1451 Manager-to-Manager MIB
	RFC 1492 TACACS+
	RFC 1493 Definitions of Managed Objects for Bridges
	RFC 1573 Evolution of Interfaces
	RFC 1643 Etherlike MIB
	RFC 1757 Remote Network Monitoring (RMON) MIB
	RFC 1907 SNMP v2 MIB
	RFC 2011 Internet Protocol (IP) MIB using SMIv2
	RFC 2012 Transmission Control Protocol (TCP) MIB using SMIv2
	RFC 2013 User Datagram Protocol (UDP) MIB using SMIv2
	RFC 2233 Interfaces Group using SMIv2
	RFC 2618 RADIUS MIB
	RFC 2665 Ethernet-like Interface Types MIB
	RFC 2666 Identification of Ethernet Chip sets
	RFC 2674 MIB for Bridge with Traffic Classes, Multicast Filtering and VLAN Extension (IEEE802.1p/q MIB)
	RFC 2737 ENTITY-MIB
	RFC 2819 RMON MIB
	RFC 2863 Interface Evolution

Standards Supported	IEEE 802.1AB
	IEEE 802.1D
	IEEE 802.1Q
	IEEE 802.1p
	IEEE 802.1w
	IEEE 802.1x
	IEEE 802.2
	IEEE 802.3
	IEEE 802.3I
	IEEE 802.3u
	IEEE 802.3x
	IEEE 802.3z
	IEEE 802.ab
	IEEE 802.3ac
	IEEE 802.3ad
	IEEE 802.3ae
	IEEE 802.3ak
	IEEE 802.3af
Environmental Operating Conditions	Operating Temperature: 0º C to 45º C
	Storage Temperature: -20º C to 70º C
	Operating Relative Humidity: 10% to 90% non-condensing
	Storage Relative Humidity: 10% to 95% non-condensing
Power	100-240VAC, 50-60Hz
	Optional Redundant power through EPS-470

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/C5N4W-Dell-PowerConnect-6224P-24-GbE-Port-Managed-Switch-with-PoE-support-p-296334.php

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