3Com

Enterprise-class, Layer 2 10/100 switch for small and medium businesses, voice ready with PoE and advanced features for network control and flexibility

OVERVIEW

The "smart" voice-ready 3Com® Baseline Switch 2426-PWR Plus is a web-managed Layer 2 10/100 Ethernet switch that delivers enterprise-class features, customized and priced for small- and mid-sized organizations. With an easy-to-use switch interface and advanced features (VLANs, IEEE 802.1X authentication and Rapid Spanning Tree), twenty-four 10/100 and two dual-purpose Gigabit ports, and Power over Ethernet (PoE), the Baseline Switch 2426-PWR Plus is the most cost-effective way to provide a converged network.

KEY BENEFITS

LAYER 2 SWITCHING WITH ADVANCED FEATURES

The Baseline Switch 2426-PWR Plus has twenty-four PoE-enabled 10/100 and two dual-purpose Gigabit ports (copper or SFP-based fiber) to connect to high-performance computers, servers, or network backbones.

The switch provides non-blocking performance—all ports perform at wirespeed which helps to eliminate network traffic bottlenecks. Manual link aggregation allows ports to be grouped together to form an ultra-high-bandwidth connection that greatly expands bandwidth capacity to the network core.

This "smart" switch has the features that help build a voice ready network, with support for auto-voice VLAN, SNMP-based management, IGMP snooping and query and IEEE 802.1X for strengthening security.

The Baseline Switch 2426-PWR Plus also supports Spanning Tree and Rapid Spanning Tree, traffic prioritization, priority queuing and VLANs. These switching features ensure optimal use of available bandwidth as traffic flow is directed according to the needs of the business.

POWER OVER ETHERNET

The Baseline Switch 2426-PWR Plus provides inline power to attached devices—access points, Voice over IP (VoIP) phones, IP security cameras, etc.—via industry-standard IEEE 802.3af Power over Ethernet over a single Ethernet cable, resulting in significant deployment cost savings.

NO SWITCH SETUP REQUIRED

This Baseline Plus switch is operational straight out-of-the-box; as long as default settings are acceptable, there is no need to configure the switch. If desired, the switch can be configured using a web browser or SNMP management software.

3Com Baseline Switch 2426-PWR Plus

KEY BENEFITS
(CONTINUED)

SMART BROWSER-BASED USER INTERFACE

For networks that require more control, the switch management interface—completely redesigned to enhance useability—allows even novice users to quickly and confidently configure the switch during initial setup or normal operation.

In addition, the web interface features individual port-traffic monitoring (port mirroring) and a unique, quick-glance switch status review. A cable diagnostic tool lets users troubleshoot basic connectivity problems via the web management interface further simplifying network installation.

THREE YEAR HARDWARE WARRANTY

This switch comes with a Three Year Limited Hardware Warranty. Also provided is Advanced Hardware Replacement, with next business day shipment available in most regions.

SERVICE

3Com products are backed by 3Com Global Services and authorized partners with demonstrated expertise in network assessment, implementation and maintenance. Ask about which 3Com Network Health Check, installation services and maintenance service packages are available in your area.

FEATURES HIGHLIGHTS

Feature	Description
Traffic prioritization and auto-voice VLAN	Traffic prioritization, using IEEE 802.1p Quality of Service (QoS) and Type of Service (TOS) with Differentiated Services Code Point (DSCP), and automatic assignment of VoIP traffic to dedicated VLANs help ensure that critical time-sensitive traffic gets the priority needed for quality communications.
Outstanding value	Take advantage of flexible, configurable and powerful switching that costs not much more than an unmanaged switch.
Flexible Gigabit uplinks	Daisychain multiple units together via the built-in copper Gigabit uplink ports or connect to a network backbone via SFP-based fiber modules.
Enhanced browser-based user interface	Easy-to-use user interface allows even the most novice users to configure the switch during initial setup and monitor it during normal operation.
PoE support	Provides power for IP phones, wireless LAN access points, and other compliant devices over the same cable used for data; lowers total cost of ownership since there is no need to run additional electrical wiring.
VLANs	Segment the network by grouping users based on their data or traffic exchange requirements. This ensures optimal use of available bandwidth as traffic flow is directed according to the needs of the business.
Manual link aggregation (trunking)	Group together any number of ports to form an ultra-high-bandwidth connection to the network backbone; help prevent traffic bottlenecks.
Traffic monitoring (port mirroring)	Administrators can examine suspect data streams received on any port by mirroring the data stream to a monitoring port.
IEEE 802.1X network access control	Provides standards-based security combined with local authentication.
SNMP support	Switch can be managed with SNMP-compatible tools.
Rapid Spanning Tree Protocol (RSTP) support	Improves network compatibility, scalability and availability.
IGMP snooping and query	Multicast filtering optimizes network performance, instead of flooding traffic to all ports.
PoE configuration	PoE power can be enabled or disabled per unit and per port; power can also be limited per port.
Cable diagnostics	Remotely detect cable issues using a browser-based tool.

BASELINE SWITCH 2426-PWR PLUS IN A CONVERGED NETWORK
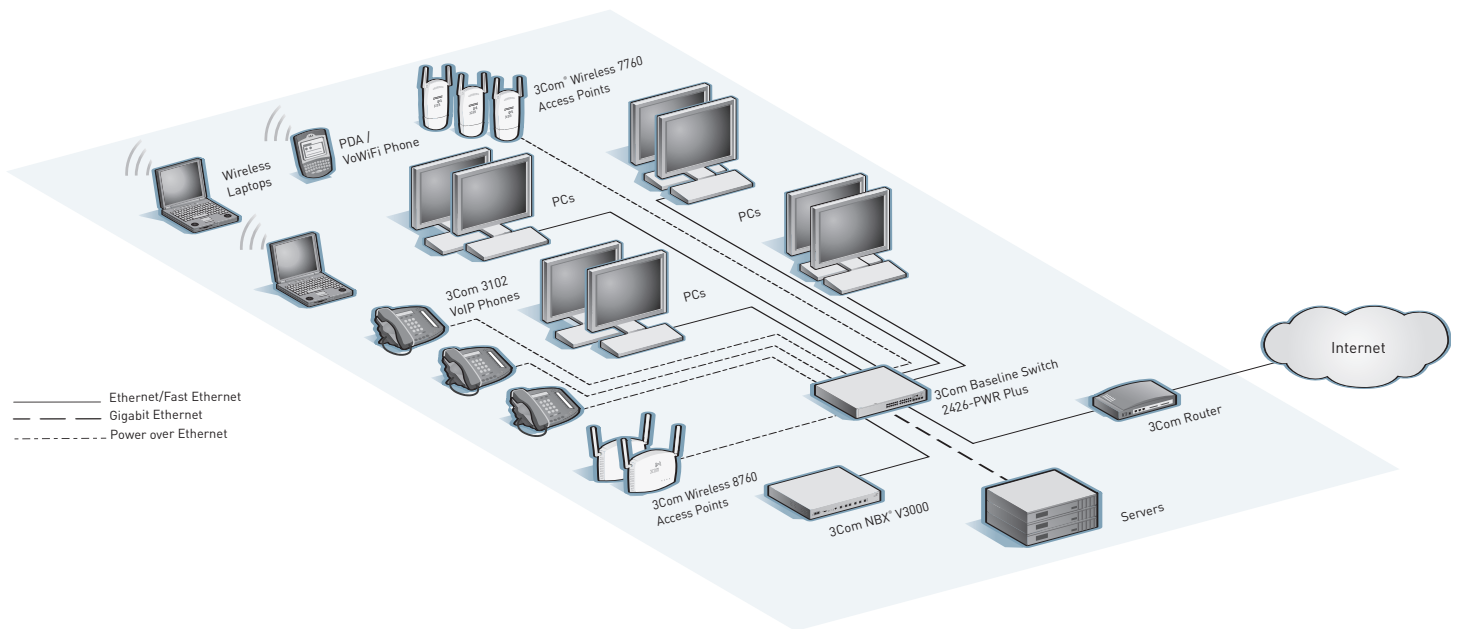
VOICE READY NETWORK

3Com Voice Ready Networks provide an innovative and holistic approach to assessing, recommending and implementing a converged network, solving the most vexing challenges that confront IT managers as they deploy Internet Protocol (IP) telephony systems. With 3Com Voice Ready Networks, organizations can optimize network infrastructure for realtime voice and video traffic, ensure secure communications and protect business assets.

The Baseline Switch 2426-PWR Plus is an integral component of this approach, offering:

› Automatic assignment of voice traffic to separate VLANs

› IEEE 802.1p prioritization and 802.1Q VLANS

› IEEE 802.1X authentication

› Two dual-personality Gigabit SFP ports

› SNMP support

› Power over Ethernet

SPECIFICATIONS

CONNECTORS
26 total available ports, comprised of:

24 auto-negotiating 10BASE-T/ 100BASE-TX configured as auto MDI/MDIX

2 dual-personality Gigabit port pairs, configurable as 10BASE-T/100BASE-TX/ 1000BASE-T or SFP

PERFORMANCE
8.8 Gbps switching capacity, max.

6.6 Mpps forwarding rate, max.

Wirespeed performance across ports

Store-and-forward switching

LAYER 2 SWITCHING
4,096 MAC addresses in address table

64 Port-based VLANs (IEEE 802.1Q)

Manual link aggregation: 2 10/100 trunks with 4 ports per trunk, max.; additional trunk for SFP ports

Auto-negotiation of port speed and duplex

IEEE 802.3x full-duplex flow control

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

Internet Group Management Protocol (IGMP) snooping on Layer 2 interfaces

Multicast filtering

CONVERGENCE
4 hardware queues per port, with IEEE 802.1p Class of Service/Quality of Service (CoS/QoS) on egress

Weighted Round Robin queuing

Traffic prioritization at Layer 2 using 802.1p QoS, and at Layer 3 using Type of Service (TOS) with Differentiated Services Code Point (DSCP)

Auto VLAN assignment for voice traffic determined by vendor OUI

SECURITY
IEEE 802.1X Network login

POWER OVER ETHERNET
IEEE 802.3af

180W per switch, max.

MANAGEMENT
Web-based configuration for:

- Port speed and duplex configuration
- Spanning tree
- VLANs
- IGMP snooping
- Link aggregation
- IGMP query
- Traffic monitoring
- Broadcast storm control
- SNMP v1 and v2

Compatible with SNMP management tools like 3Com Network Supervisor and 3Com Network Director

LED INDICATORS
Module active, power, network traffic/duplex mode, link status/speed

AT-A-GLANCE TRAFFIC MONITORING
Ports: active, enabled, disabled

Modules: present, active

POWER SUPPLY
Input voltage: 100-240 VAC, 50/60 Hz

Current rating: 3A, max.

Power consumption: 205W, max.

Power dissipation: 154 BTU/hr, max.

Power inlet: IEC 320

DIMENSIONS
Height: 4.4 cm (1.7 in or 1 RU)

Width: 44.0 cm (17.3 in)

Depth: 23.8 cm (9.4 in)

Weight: 3.2 kg (7.1 lb)

ENVIRONMENTAL REQUIREMENTS
Operating temperature: 0° to 45°C (32° to 113°F)

Operating humidity: 10 to 95% (non-condensing)

Standard: EN 60068 (IEC 68)

REGULATORY AND AGENCY APPROVALS
Safety: UL 60950-1, EN 60950-1, CSA 22.2 60950-1, IEC 60950-1

Emissions: EN 55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, AS/NZS 3548 Class A,

Environmental: EN 60068 (IEC 68)

Immunity: EN 55024

IEEE STANDARDS SUPPORTED
IEEE 802.1d Spanning Tree

IEEE 802.1p Priority Tags

IEEE 802.1Q VLANs

IEEE 802.1X Port Security

IEEE 802.1w Rapid Spanning Tree

IEEE 802.3 Ethernet

IEEE 802.3ab Gigabit Ethernet

IEEE 802.3af Power over Ethernet

IEEE 802.3u Fast Ethernet

IEEE 802.3x Flow Control

IEEE 802.3z Gigabit Ethernet

ISO 8802-3

PACKAGE CONTENTS
Switch unit, power cord, self-adhesive rubber pads, rack-mount kit, user guide, installation CD, warranty flyer

WARRANTY AND OTHER SERVICES
Three Year Limited Hardware Warranty, including fans and power supply

Limited Software Warranty for 90 days

Advance Hardware Replacement with Next Business Day shipment in most regions

90 days of telephone technical support

Refer to www.3com.com/warranty for details.

ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU
3Com Baseline Switch 2426-PWR Plus	3C16491
Transceivers	
3Com 1000BASE-SX SFP	3CSFP91
3Com 1000BASE-LX SFP	3CSFP92

Visit www.3com.com for more information about 3Com secure converged network solutions.

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