

# 3COM BASELINE PLUS SWITCH 2250



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## Overview

The “smart” voice-ready 3Com® Baseline Plus Switch 2250 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), forty-eight 10/100 and two dual-purpose Gigabit ports, the Baseline Plus Switch 2250 is the most cost-effective way to provide a converged network.

## Key Benefits

### LAYER 2 SWITCHING WITH ADVANCED FEATURES

The Baseline Plus Switch 2250 has forty-eight 10/100 ports and two dual-purpose Gigabit ports (copper or SFP-based fiber) to connect to high-performance computers, servers, or core 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 ultrahigh-bandwidth connection that greatly expands bandwidth capacity to the network backbone.

This 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 Plus Switch 2250 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.

### 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.

### SMART BROWSER-BASED USER INTERFACE

For networks that require more control, the switch management interface 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.

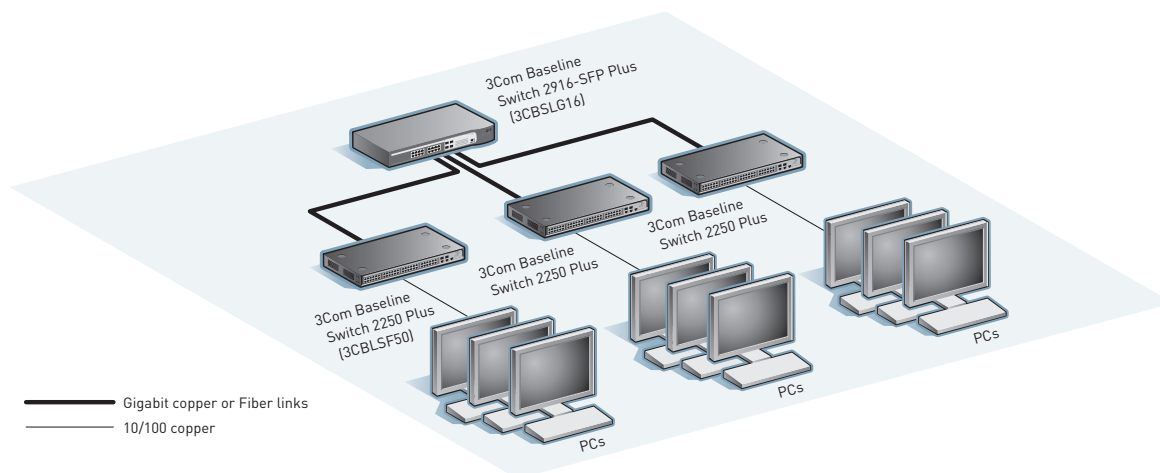


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## Feature Summary

FEATURE	DESCRIPTION
Traffic prioritization and auto-voice VLAN	Traffic prioritization, using IEEE 802.1p Quality of Service (QoS), 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.
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 up to 8 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 with EAP-MD5 protocol.
SNMP	Switch can be managed with SNMP-compatible tools.
RSTP	Rapid Spanning Tree Protocol (RSTP) detects and uses network topologies that allow a faster STP convergence without creating forwarding loops.
IGMP snooping and query	Multicast filtering optimizes network performance, instead of flooding traffic to all ports.
Cable diagnostics	Remotely detect cable issues using a browser-based tool.
SSL	Secure Sockets Layer (SSL) is a security protocol providing secure connection service for TCP-based application layer protocols.
LACP	Link Aggregation Control Protocol (LACP) based on the IEEE802.3ad standard can be used for dynamic link aggregation and the switch only supports static LACP.
ACL	Access Control Lists (ACLs) allow network managers to define classification actions and rules for specific ingress ports.
LLDP	The Link Layer Discovery Protocol (LLDP) operates on the data link layer. With LLDP, a device can store and maintain information about itself and the directly-connected neighbor devices for network administrators to check link status.
Fanless design	Silent operation whether used in a rack or desktop situation.

## Baseline Plus Switch 2250 In a Typical Installation



## 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 Plus Switch 2250 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

## Specifications

### CONNECTORS

50 total available ports, comprised of:

- 48 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

13.6 Gbps switching capacity, max. 10.1 Mpps forwarding rate, max. Wirespeed performance across ports. Store-and-forward switching

### LAYER 2 SWITCHING

8,192 MAC addresses in address table  
512 port-based VLANs (IEEE 802.1q) Manual link aggregation: 6 trunks with 8 ports per trunk, max.  
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 Auto VLAN assignment for voice traffic determined by vendor OUI

### SECURITY

IEEE 802.1X Network login; EAP-MD5 encryption  
3Com Local Database (LDB)

### ENVIRONMENTAL REQUIREMENTS

Operating temperature: 0 to 40°C  
Operating humidity: 20 to 85% (non-condensing)  
Standard: EN 60068 (IEC 68)

### MANAGEMENT

Web-based configuration for:

- Port speed and duplex configuration
- Spanning tree
- VLANs
- IGMP snooping
- Link aggregation

## Specifications (continued)

- IGMP query
- Traffic monitoring
- LLDP
- ACL
- LACP
- Broadcast storm control
- SNMP v1 and v2

Compatible with SNMP management tools like 3Com Intelligent Management Center, Network Supervisor and Network Director  
CLI management supports initial setup of switch

### LED INDICATORS

Module active, power, link status/ speed/active

### AT-A-GLANCE TRAFFIC MONITORING

Ports: active, enabled, disabled

Modules: present, active

### POWER SUPPLY

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

Current rating: 2A, max.

Power consumption: 26W, max.

Power dissipation: 61 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: 2.9 kg (6.4 lb)

### 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 CISPR22 Class A, K22.

Environmental: EN 60068 (IEC 68)

Immunity: EN 55024, K24.

### 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 802.3u 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 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](http://www.3com.com/warranty) for details.

## Ordering Information

### PRODUCT DESCRIPTION

3Com Baseline Plus Switch 2250

### 3COM SKU

3CBLSF50H

### TRANSCEIVERS

3Com 1000BASE-SX SFP

3CSFP91

3Com 1000BASE-LX SFP

3CSFP92

### 3COM GLOBAL SERVICES

3Com Wireless LAN Site Survey

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