

**Enterprise-class,  
Layer 2 10/100/1000  
switch for small and  
medium businesses,  
with advanced features  
for network control  
and flexibility**

## OVERVIEW

The 3Com® Baseline Switch SFP Plus Family are “smart” cost-effective Layer 2 10/100 and 10/100/1000 Ethernet switches. These 16-, 24- and 48-port switches provide a user-friendly web browser interface for switch configuration and administration. With a low entry cost, they offer advanced features such as link aggregation, IEEE 802.1p class of service (CoS) traffic prioritization, and VLANs for greater scalability and support for business-critical applications—such as customer relation management (CRM), supply chain management (SCM) and video.

## KEY BENEFITS

### SMART BROWSER-BASED USER INTERFACE

The easy-to-use web-based 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 unique, quick-glance switch status monitoring. A new cable diagnostic tool lets users troubleshoot basic connectivity cabling problems via the web management interface further simplifying network installation.

### WIRESPEED SWITCHING

These switches have non-blocking performance—all ports perform at wirespeed which helps to eliminate network traffic bottlenecks. Link aggregation allows administrators to group any number of copper or fiber ports together to form an ultra-high bandwidth pipe that greatly expands bandwidth capacity to the network backbone. The switch also supports 802.1p for traffic prioritization and priority queuing, and VLANs, which segment the network by grouping users based on data or traffic exchange requirements. These switching features ensure optimal use of available bandwidth as traffic flow is directed according to the needs of the business.

### ENTERPRISE-CLASS QUALITY AND RELIABILITY WITHOUT COMPLEXITY

These Baseline switches are operational straight out-of-the-box; as long as basic settings are acceptable, there is no need to configure the switch. For networks that require more control, the user-friendly web-based interface provides easy-to-use tools to design a network for optimal use. These switches have a Three Year Limited Hardware Warranty. Advanced Hardware Replacement, with Next Business Day shipment in most regions, is also provided.



3Com Baseline Switch SFP Plus Family

## SPECIFICATIONS

All information in this section is relevant to all members of the 3Com Baseline Switch SFP Plus family, unless otherwise stated.

### CONNECTORS

#### Switch 2816-SFP Plus

16 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX  
4 Gigabit SFP ports, dual-purposed with 4 of the above 10/100/1000 ports (configurable as 10/100/1000 or SFP)

#### Switch 2824-SFP Plus

24 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX  
4 Gigabit SFP ports, dual-purposed with 4 of the above 10/100/1000 ports (configurable as 10/100/1000 or SFP)

#### Switch 2848-SFP Plus

48 auto-negotiating 10BASE-T/100BASE-TX/1000BASE-T ports configured as auto MDI/MDIX  
4 Gigabit SFP ports, dual-purposed with 4 of the above 10/100/1000 ports (configurable as 10/100/1000 or SFP)

### PERFORMANCE

#### Switch 2816-SFP Plus

32 Gbps switching capacity, max.  
23.7 Mpps forwarding rate, max.

#### Switch 2824-SFP Plus

48 Gbps switching capacity, max.  
35.5 Mpps forwarding rate, max.

#### Switch 2848-SFP Plus

96 Gbps switching capacity, max.  
71.4 Mpps forwarding rate, max.

#### All models

Wirespeed performance across all ports  
Store-and-forward switching

### LAYER 2 SWITCHING

8,192 MAC addresses in address table  
64 port-based VLANs (IEEE 802.1Q)  
Manual link aggregation: 4 trunks, max.; 8 ports per trunk, max. (Switch 2816-SFP and 2824-SFP); 6 trunks, max.; 8 ports per trunk, max. (Switch 2848-SFP)

Auto-negotiation of port speed and duplex

IEEE 802.3x full-duplex flow control  
IEEE 802.1D Spanning Tree Protocol (STP)

### CONVERGENCE

4 hardware queues per port  
Weighted Round Robin (WRR) queuing  
IEEE 802.1p Class of Service/Quality of Service (CoS/QoS) on egress

### MANAGEMENT

Web-based configuration for:

- Port speed and duplex configuration
- Spanning tree
- VLANs
- Link aggregation
- Traffic monitoring
- Broadcast storm control

### LED INDICATORS

Link status/speed, module active, duplex status, power

### POWER SUPPLY

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

Current rating: 1A, max.

Power consumption: 60W, max.

Power dissipation: 184.3 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—

2816-SFP, 2824-SFP: 17.3 cm (6.8 in)

2848-SFP: 23.8 cm (9.4 in)

Weight—

2816-SFP: 1.83 kg (4.03 lb)

2824-SFP: 1.89 kg (4.17 lb)

2848-SFP: 2.54 kg (5.6 lb)

### ENVIRONMENTAL REQUIREMENTS

Operating temperature: 0° to 40°C (32° to 104°F)

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

Standard: EN 60068 (IEC 68)

### REGULATORY AND AGENCY APPROVALS

Safety: UL/CUL 60950-1, EN 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, CNS 13438 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 802.3 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

Power cord; switch unit; 4 self-adhesive, rubber pads; rack-mount kit; one user guide; one 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](http://www.3com.com/warranty) for details.

## ORDERING INFORMATION

### PRODUCT DESCRIPTION

3Com Baseline Switch 2816-SFP Plus

3Com Baseline Switch 2824-SFP Plus

3Com Baseline Switch 2848-SFP Plus

### 3COM SKU

3C16485A

3C16487

3C16486

### Transceivers

3Com 1000BASE-SX SFP

3Com 1000BASE-LX SFP

3CSFP91

3CSFP92

Visit [www.3com.com](http://www.3com.com) for more information about 3Com secure converged network solutions.

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