# **NETGEAR®**

# ProSAFE® 10/100 Desktop Switches

Data Sheet

FS105, FS108, FS116



# Solid Network Performance for Growing Businesses

The popular NETGEAR FS100 series desktop switches, known for its reliability and performance, provide your LAN with high-speed, 10/100 Mbps autosensing connectivity for as many as 5, 8, or 16 users. Just plug in your Ethernet cables, connect a power cord, and you're ready to go-there's no software to configure. Engineered without the need for internal fans, they operate silently. And each of these very compact switches is housed in a sturdy metal case for years of dependable use.

When you want solid network performance for your growing business, plus the added benefit of quiet operation, the NETGEAR ProSAFE FS105, FS108, and FS116 are your best choices for quality, convenience, and smooth — running usability — all at very affordable prices.

# Highlights

#### At Your Service

 Five, eight, or sixteen ports provide LAN access for many users. Every port supports up to 200 Mbps in dedicated bandwidth and traffic is forwarded flawlessly with automatic flow control.

#### Compact

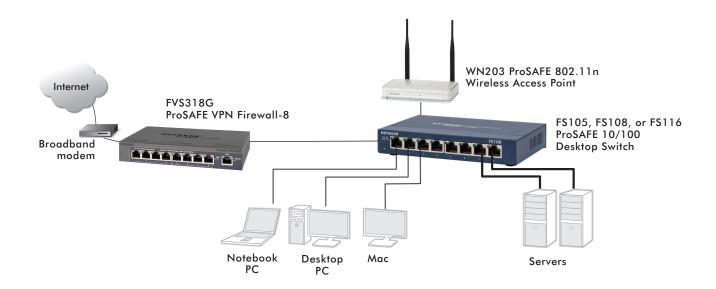
 Solidly built in small sizes that are easy to position when space is at a premium. Ideal for conference rooms, class rooms, study groups or small offices. Place it on any flat surface or use the included wall mount kit to tuck it out of the way.

#### Simple To Use

 Once you connect the hardware, your switch is operating! Auto negotiation takes care of the speed and duplex, while Auto Uplink takes care of the MDI/MDI-X connection.

#### Quiet

 No fan means no noise, which helps maintain a peaceful atmosphere in your busy office.









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# **Technical Specifications**

#### **Network Ports**

- FS105: Five (5) 10/100Mbps auto speed-sensing UTP ports
- FS108: Eight (8) 10/100Mbps auto speed-sensing UTP ports
- FS116: Sixteen (16) 10/100Mbps auto speed-sensing UTP ports

## **Standards Compliance**

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3x Full-duplex Flow Control

#### **Performance Specifications**

#### Forwarding modes

· Store-and-forward

#### Bandwidth

• FS105: 1Gbps, FS108: 1.6Gbps FS116: 3.2Gbps

## Network latency

• Less than 20  $\mu s$  for 64-byte frames in store-and-forward mode for 100 Mbps to 100 Mbps transmission

#### **Buffer memory**

• FS105: 64 KB FS108: 96 B FS116: 512 KB

## Address database size

• FS105: 2,000 FS108: 2,000 FS116: 4,000

#### Addressing:

• 48-bit MAC address

#### Mean time between failures (MTBF)

• FS105: 4.2M hours FS108: 4.0M hours FS116: 4.0M hours

#### Acoustic Noise

• 0 dB

#### **Environmental Specifications**

#### Operating temperature

- FS105, FS108: 32 to 104°F (0 to 40°C)
- FS116: 32 to 122°F (0 to 50°C)

### Storage temperature

• 14° to 158°F (-10° to 70°C)

#### Operating humidity

• 90% maximum relative humidity, non-condensing

#### Storage humidity

 95% maximum relative humidity, non-condensing

## Operating altitude

· 10,000ft (3,000m) maximum

### Storage altitude:

· 10,000ft (3,000m) maximum

## **Safety Agency Approvals**

- · UL listed (UL 1950)/cUL
- IEC 950/EN 60950
- RU EAC

#### Status LEDs

- Power
- Link and activity indicators built into each
- RJ-45 port

### **Electromagnetic Emissions**

- · CE mark, commercial
- FS105, FS108: FCC part 15 Class B
- FS116: FCC part 15 Class A
- EN 55022 (CISPR22), Class A
- · VCCI Class A (FS116)
- · C-Tick
- RU EAC

#### **AC Power**

- · Auto-sensing 100 to 240V, 50/60Hz
- Localized plug for North America, Japan, UK, Europe, Australia
- FS105: 0.9W maximum
- · FS108: 1.0W maximum
- FS116: 5.5W maximum

# **Physical Specifications**

# Dimensions (H x W x D): FS105

- 94 x 101 x 27mm (3.7 x 4.0 x 1.1in)
- Weight: 0.26kg (0.57lb)

#### FS108

- 158 x 103 x 27mm (6.2 x 4.1 x 1.1in)
- Weight: 0.39kg (0.86lb)

## FS116

- 285 x 102 x 27mm 11.2 x 4.0 x 1.1in
- Weight: 0.80kg (1.8lb)

#### **System Requirements**

- · Network Cables
- · Network card for each PC or server
- Network software (e.g., Windows®, Linux®, Mac OS®)

# Warranty

- Switch: NETGEAR Lifetime Warranty\*
- Power adapter: NETGEAR 2-year Warranty

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# **Technical Specifications**

# ProSupport Service Packs Available

## OnCall 24x7, Category 1

- PMB0331-100 (US)
- PMB0331 (non-US)

#### **Package Contents**

- 10/100 Desktop Switch (FS105, FS108 or FS116)
- · Wall-mount kit
- AC adapter
- · Quick Installation Guide
- · Warranty/support information card

## **Ordering Information**

#### North America

- FS105NA
- FS108NA
- FS116NA

## Europe - General

- FS105-300PES
- FS108-300PES
- FS116GE

#### Europe - UK

- FS105-300UKS
- FS108-300UKS

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<sup>\*</sup> This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies—not software or external power supplies; see http://www.netgear.com/about/warranty/ for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.