



# 100 - SERIES NETWORK SWITCHES Installation Manual

Unmanaged AV Rack Network Switches



#### CERTIFICATIONS AND WARNINGS

#### **FCC Warning**

This device has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

#### **CE Warning**

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

UL

Only the AN-100-SW-R-8, AN-100-SW-R-16, and AN-100-SW-R-24 port switches have been evaluated by UL. The AN-100-SW-R-5 port switch has not been evaluated by UL.

#### **About This Manual**

This manual was created to provide a reference for installers and end users of Araknis Networks products. It provides all known information regarding the installation, setup, use, and maintenance of the product. This manual was created expressly for electronic use, but has been formatted so that it may be printed and bound using either one-sided or front-and-back printing.

The symbols below are used in this manual to identify certain information. Review the definition of each symbol type to better understand notes later in the text.

#### **Pro Tips**



Pro tips are included in sections of the manual to add information that provides extra value, utility, or ease-of-use for the installer or end user of the product. Pro tips may also link to extra information that will provide a better understanding of application, technology or use of the product or feature in question. These items are not required, but have been added for your convenience.

#### Notes



Notes emphasize information important to the installation, setup, or use of the product that are not essential to follow for safety of the equipment or user. Notes may be located before or in the midst of the section they apply to, depending on the type of information. These items are usually essential information, like the size or dimension of a separate part required, or a critical step in the process, that, if missed, would cause the installer or end user extra work to overcome.

#### **Cautions**



The caution symbol is used to indicate information vital to the safety of the equipment in use with the product, or the product itself. Cautions are always provided before the information they relate to. Not following a caution will almost always result in permanent damage to equipment that is not covered by warranty.

#### Warnings



Warnings indicate information vital to the safety to the installer or end user of the product. Warnings are always provided before the information they relate to. Not following a warning may result in permanent damage to equipment and serious injury or death of the installer or end user.

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#### 1. INTRODUCTION



### Welcome to Araknis® Networks

Thank you for choosing an Araknis AN-100-SW-R-5, AN-100-SW-R-8, AN-100-SW-R-16, or AN-100-SW-R-24 Unmanaged AV Rack Network Switch. The 100-series unmanaged network switch is an enterprise-class switch specifically designed for use in AV Rack applications.

With front-facing indicators, rear-facing ports, and fan-less design, the 100-series switch was designed for easy installation and high performance in an environment where traffic on the network and the number of users could increase continuously. The switch provides 10/100/1000Mbps capability on all ports and operates as a plug-and-play device, auto-detecting connections to other switches to allow straight-through patch cables throughout an installation.

This manual will guide you through the layout of the device, explain proper installation, and describe how to deploy the switch in your network to achieve the best performance. For more information, visit <a href="https://www.araknisnetworks.com">www.araknisnetworks.com</a>.

### Araknis® 100-Series Overview

The following table lists the models available in the 100-series family of network switches.

Table 1. Araknis Networks 100-series Family

Model	Number of Ethernet Ports	Number of PoE Ports	Number of SFP Ports	Internal/External Power Supply
AN-100-SW-R-5	5	0	0	External
AN-100-SW-R-8	8	0	0	Internal
AN-100-SW-R-16	16	0	0	Internal
AN-100-SW-R-24	24	0	0	Internal



Only the AN-100-SW-R-8, AN-100-SW-R-16, and AN-100-SW-R-24 port switches have been evaluated by UL. The AN-100-SW-R-5 switch has not been evaluated by UL.



#### 1.2 — Features

#### Gigabit Ethernet with Auto MDI/MDI-X Detection

All ports provide 10/100/1000Mbps line rate speed with auto-negotiation and auto Medium Dependent Interface (MDI)/Medium Dependent Interface Crossover (MDI-X) detection. Auto-negotiation speed automatically selects the best connection speed (10, 100, or 1000Mbps) and duplex mode (half or full duplex) for communication with attached devices. Auto MDI/MDI-X crossover detection automatically adjusts for the Ethernet cable type in use (straight-through or crossover). This makes connecting the device to other network devices, such as other switches or routers, very simple and easy.

#### **Jumbo Frame Support**

100-series Unmanaged Switches support frames up to 9.6 Kilobytes, called Jumbo Frames. This feature improves network throughput and reduces overall CPU utilization during large file transfers, such as video streams, by allowing a bigger packet of data to be passed in each Ethernet frame.

#### Non-Blocking Architecture with Full Wire Speed Forwarding

Ethernet frames run from the input port to the output port through the "backplane" of the switch. The AN-100-SW-R network switch backplane is capable of handling all traffic on all ports at the same time. Having this non-blocking switch fabric architecture means the backplane is so fast that there is no significant delay for data rate due to backplane congestion. Thanks to this, the switch features Full Wire Speed Forwarding, meaning that the nominal traffic speed at all Ethernet ports can be up to 1 Gbps simultaneously.

#### **Multiple Mounting Options**

In addition to industry-standard options for shelf- and rack-mounting, Araknis network switches are also capable of over a dozen possible custom rack positions, and even wall-mounting options, using only the accessories included in the box.

#### Fan-less Design

The device is designed so that heat from the CPU is dissipated through efficient heat sinks. No fans are necessary to maintain a safe temperature, resulting in ultra-silent operation.

#### Quality of Service (QoS) Support

The 100-series unmanaged switches support Quality of Service (QoS). The switch is aware of priority levels of traffic received and forwards it based on that priority level. Incoming traffic is always examined for QoS priority encoding.



#### 1.3 — Figure 1. AN-100-SW-R-5 Package Contents

#### **Package Contents**

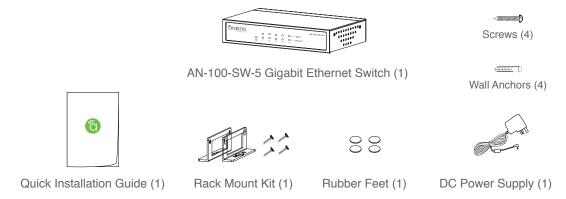
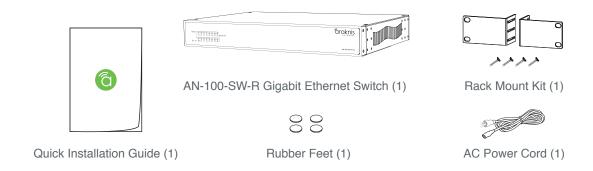


Figure 2. AN-100-SW-R-8/16/24 Package Contents



#### 1.4 — Recommended for Installation

- #2 Phillips screwdriver
- Screws and Anchors for wall-mount installation if applicable (use a fastener rated and specified for use in the wall material that can safely hold the weight of the model in use)
- · Rack screws- for rack installation
- Drill and Drill Bit- for installation of wall-mount screws or anchors



#### 2. INSTALLATION

#### 2.1 — Basic Instructions

These are the basic steps required to install the AN-100-SW-R network switch. During the installation, refer to the listed sections for more detailed information as needed.



Do not power the AN-100-SW-R until it is indicated to do so in the instructions. (See Section 2.3, page 15 for power requirements.)

- 1. Unpack and set or mount the switch in the desired location. See section 2.2 (page 9) for more information.
- 2. Make connections to the equipment requiring Ethernet access. Connect Ethernet cables between the ports on the switch and the LAN ports on the equipment. Leave one port open on the switch for connection to the router or switch providing Internet access. See Section 3.3 (page 16) for wiring best practices and device connection.
- 3. Connect an Ethernet cable between the port of the switch or router providing network access and any open Ethernet port on the AN-100-SW-R. The switch will automatically detect the connection and configure it correctly, so no crossover cable is required.
- 4. Power on the AN-100-SW-R network switch and any connected equipment. Confirm that each port is operating correctly by checking the Link/Act LED for the port. A solid-lit LED indicates that a connection is working correctly. A blinking LED indicates the port is passing traffic. If a device is not connecting properly, consult the Troubleshooting section, on page 20.
- 5. Test the network connectivity of each connected device. If all devices are properly communicating on the network, installation is now complete.



**Pro Tip:** Having a record of the location, wire length, and connection path for each network device can save a lot of time and expense later. Take some time to record a summary of the network architecture before calling the job "done."

Figure 3. Single Switch Network Example - 1

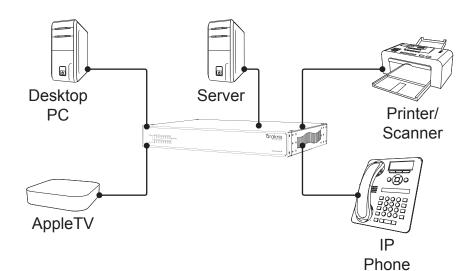
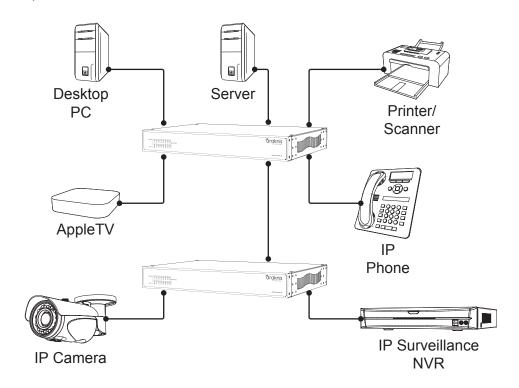


Figure 4. Multiple Switches in Network Example - 2





#### 2.2 — Switch Placement

This section describes proper placement and mounting for the AN-100-SW-R network switch, including shelf, rack, and on-wall installation.



**Note:** Section 2.2.1 applies to all AN-100-SW-R models. Section 2.2.2 addresses all placement options for the AN-100-SW-R-5 port switch. Section 2.2.3 covers all placement options for the AN-100-SW-R 8/-16,/-24 models.

### 2.2.1 — General Guidelines

Consider the following guidelines before choosing any location or mounting type for the switch:



- Make sure that the switch is accessible and that the cables can be connected with ease.

  Using cable management accessories is highly recommended for rack installations.
- Keep cabling away from sources of electrical noise, power lines, and fluorescent lighting fixtures.
- Keep the switch away from water and moisture sources.
- Power the device from an outlet with adequate capacity. Plugging in the switch must not overload the circuit in use.
- The use of a power conditioner or surge protector is highly recommended for all attached network equipment. A surge at one piece of unprotected equipment could pass through the network cable and damage other devices, even if they are protected.

#### Do not deploy the device in a location where any of the following conditions exist:

- **High Temperature:** The ambient temperature must not exceed 104°F (40°C).
- Low Air Flow: Both side panels must be unobstructed to prevent overheating. Leave 3 inches of open air space on all sides of the network switch. Avoid covering any ventilation holes.
- Mechanical Instability: The device should be level, stable, and secure to avoid it sliding
  or shifting out of position. The included rubber feet will help prevent unwanted movement
  for shelf-mounted switches. Do not mount the switch to any rack or wall that is unstable
  or damaged.

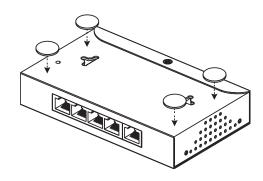


2.2.2 — AN-100-SW-R-5 Placement Options

#### 2.2.2.1 Shelf Mounting

To shelf-mount the network switch, first place the included adhesive feet on the bottom of the unit as shown below. Then, place the switch in the desired position. Make sure the shelf or surface used is flat and stable.

Figure 5. AN-100-SW-R-5 Rubber Foot Installation

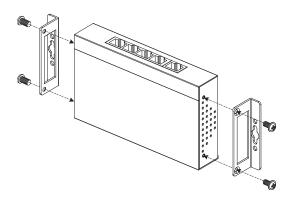


#### 2.2.2.2 On-Wall Mounting

The switch may be mounted on a wall or any other surface by using the included mounting ears. This allows for a low-profile installation for the switch, eliminating the need for extra shelving or racks when providing a network switch solution. To wall-mount the switch:

- 1. Locate the included wall-mounting ears and screws from the packaging and a #2 Philips screwdriver.
- 2. Attach the ears to each side of the switch as shown:

Figure 6. AN-100-SW-R-5 On-Wall Mounting



3. After attaching the ears, mount the switch on the wall in the desired location as shown using screws or fasteners (not included) rated for use in the surface material, and capable of supporting the weight of the switch.



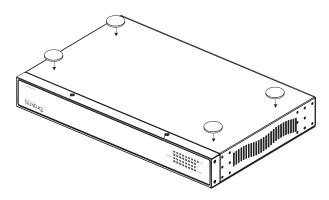
2.2.3 — AN-100-SW-R-8/16/24 Placement Options

#### 2.2.3.1 Shelf Mounting

To shelf-mount the network switch, first place the included adhesive feet on the bottom of the unit as shown below. Then place the switch in the desired position. Make sure the shelf or surface used is flat and stable.

**Caution:** Do not stack more than 4 switches together. Do not stack any other equipment on top of the network switch to avoid possible interference or damage.

Figure 7. AN-100-SW-R-8/16/24 Rubber Foot Installation



#### 2.2.3.2 Rack Mounting

The AN-100-SW-R-8, AN-100-SW-R-16, and AN-100-SW-R-24 models include a variety of rack mounting hole options that allow for front, rear, or angled positioning in the rack. Follow these steps to rack-mount the switch, using the images for reference when choosing the holes for the desired mounting orientation:

- 1. Locate the included rack-mounting ears and screws from the packaging and a #2 Philips screwdriver.
- 2. Attach the ears to each side of the switch for the desired mounting angle as shown:

Figure 8. AN-100-SW-R-8/16/24 Rack Mounting Options

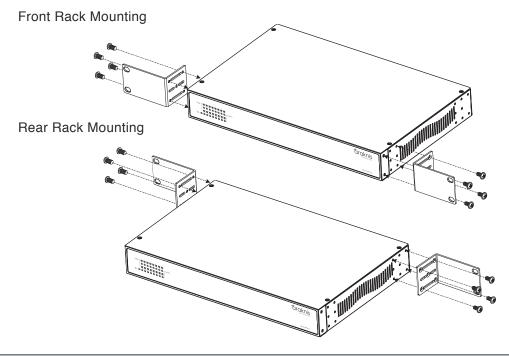
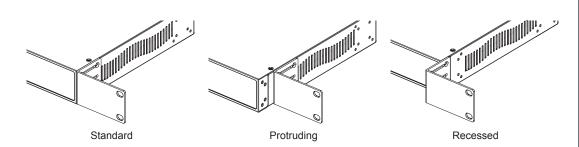




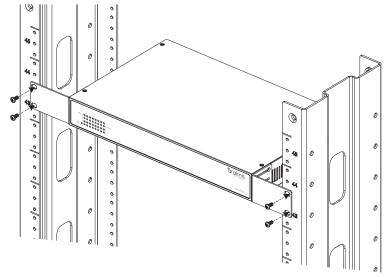
Figure 8. (continued)

#### Multiple Mounting Options



3. After the ears are attached, mount the switch in the rack as shown below. Insert the bottom screws first to avoid bending the mounting ears or chassis.

Figure 9. AN-100-SW-R-8/16/24 Rack Mounting Procedure



#### **Rack Mounting Guidelines**

- Elevated Operating Ambient If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature of 104 F.
- Reduced Air Flow Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mechanical Loading Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading Consideration should be given to the connection of the equipment to
  the supply circuit and the effect that overloading of the circuits might have on overcurrent
  protection and supply wiring. Appropriate consideration of equipment nameplate ratings
  should be used when addressing this concern.
- Reliable Earthing Reliable earthing of rack-mounted equipment should be maintained.
   Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."

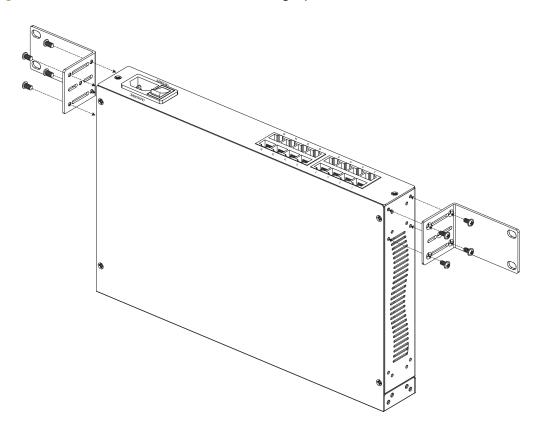


#### 2.2.3.3 On-Wall Mounting

The AN-100-SW-R is designed to be mounted on-wall if desired by using the same parts meant for rack-mounting. This allows for a low-profile installation for the switch, eliminating the need for extra shelving or racks when providing a network switch solution. To wall-mount the switch:

- 4. Locate the included wall-mounting ears and screws from the packaging and a #2 Philips screwdriver.
- 5. Attach the ears to each side of the switch as shown:

Figure 10. AN-100-SW-R-8/16/24 Wall Mounting Option



6. After attaching the ears, mount the switch on the wall in the desired location as shown using drywall screws or fasteners suitable for the wall surface material (not included).



For wall mounting, we recommend using 4 drywall screws, minimum of 1-1/4" X 8 GA with anchors



#### 2.3 — Powering the AN-100-SW-R Switch

# 2.3.1 —

Table 2. AC Electrical Requirements

AC Electrical Requirements

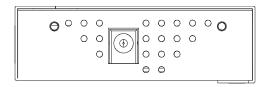
Input Voltage (AC Only) 100-240V AC, 50~60Hz
--

2.3.2 — AN-100-SW-R-5

The AN-100-SW-R-5 is designed with an external DC power supply that connects inline between the power outlet and the DC input on the switch.

#### 2.3.2.1 Power Plug Connection

Figure 11. AN-100-SW-R-5 Power Plug Connection

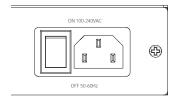


2.3.3 — AN-100-SW-R-8/16/24

The AN-100-SW-R-8, -16, and -24 are designed with an internal power supply, and require the use of the included or an equivalent grounded IEC cable to connect the switch to an outlet.

#### 2.3.3.1 Power Plug Connection

Figure 12. AN-100-SW-R-8/16/24 Power Plug Connection



i

**Pro Tip:** The use of a power conditioner or surge protector is highly recommended for all connected network equipment. A surge at one piece of unprotected equipment could pass through the network cable and damage other devices, even if they are protected. Power conditioners with additional Ethernet protection are available at <a href="http://www.snapav.com/c-8-power-products.aspx">http://www.snapav.com/c-8-power-products.aspx</a>.



Note: AN-100-SW-R-8 does NOT have a power switch.

# a

#### 3. CONNECTING NETWORK DEVICES

Setup of the AN-100-SW-R is very simple and requires nothing more than connections to other equipment and power. This switch provides automatic crossover detection functionality for any port, so connections can be made to other switches without the need for a crossover cable between devices.

# 3.1 — Wiring Recommendations

Make all Ethernet connections using twisted-pair, 568B-terminated straight-through cables manufactured and terminated to meet the Cat5e/6/+ standard in use for the installation. Patch cables may be stranded. Bulk wire should be solid core to permit the longest run possible. No cable length should be over 100 meters in total, containing a maximum of 10 meters of stranded patch cables. It is highly recommended to test every cable in use with a network analyzer prior to finalizing the installation.

Table 3. Cable and Connector Recommendations

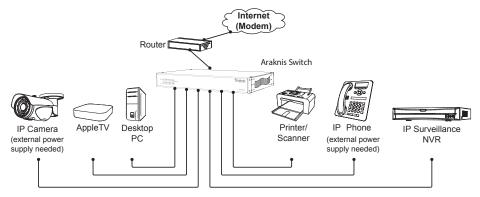
Item	Description	Max Length (If applicable)	
Bulk Wire	Solid Core, EIA/TIA certified Cat5e or better	100 meters without patch cables; 90 meters with patch cables	
Connectors for Wire	RJ45 of the same standard as the bulk cable in use		
Patch Cables	Stranded, EIA/TIA certified	No more than 10 meters of patch cables to a run in total	



**Pro Tip:** For guaranteed, hassle-free performance, use Binary<sup>™</sup> bulk wire, and Wirepath<sup>™</sup> cable connectors and manufactured patch cables. All of the items are available at <a href="http://www.snapav.com/c-13-bulk-wire.aspx">http://www.snapav.com/c-13-bulk-wire.aspx</a>.

# 3.2. — Application Diagram

Figure 13. Application Diagram





Leave all equipment un-powered while making connections.

# 3.3 — Connection Instructions

- 1. Install the network switch and any equipment to be connected.
- 2. Route bulk wire or patch cables between equipment locations.
- 3. Terminate and test all cables.
- 4. Connect each cable between the LAN port on the equipment requiring network access and a port on the switch. Leave one switch port open to allow connection to the rest of the network.
- 5. Connect a network cable from the switch to the device providing network connectivity.
- Power up all equipment and test each attached device for network connectivity.

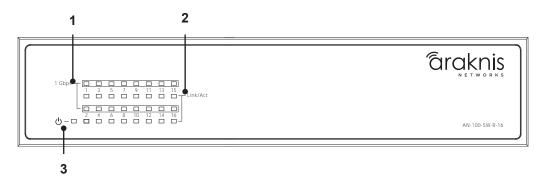
### 4. PRODUCT LAYOUT



This section describes the hardware layout of the 100-series unmanaged network switch. Each connection, indicator, and control is summarized.

# 4.1 — Front Panel Layout

Figure 14. Front Panel Layout



#### 1. Table 4. 1 Gbps LED Indicator

Behavior	Description		
Off	No device connected/Connected device supports 10/100Mbps only		
On	Device connected at 1Gbps speed		

#### 2. Table 5. Link/Act LED Indicator

Behavior	Description	
Off	No device connected	
Blinking	Device is connected and traffic running	

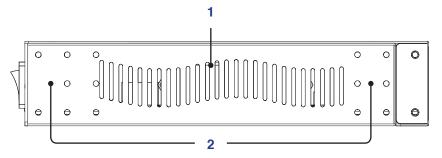
#### 3. Table 6. Power LED Indicator

Behavior	Description	
On	Power on.	
Off	Power off.	



# 4.2 — Side Layout

Figure 15. Side Layout



#### 1. Ventilation Slots

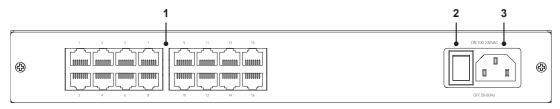
Allows airflow through the chassis to keep the device cool.

#### 2. Rack Mounting Holes

The combination of threaded holes at the front and rear of each side allow for many variations in mounting options.

# $\begin{array}{c} \text{4.3} \ - \\ \text{Rear Panel Layout} \end{array}$

Figure 16. Rear Panel Layout



#### 1. Ethernet Ports (RJ45)

Connect Ethernet network cables routed to equipment.

#### 2. Master Power Switch

Toggle Switch for master power control.

#### 3. Power Jack

Attach an IEC power cable.



Note: AN-100-SW-R-8 does NOT have a power switch.

### 5. SPECIFICATIONS



Table 7. Specifications

Model		AN-100-SW-R-5	AN-100-SW-R-8	AN-100-SW-R-16	AN-100-SW-R-24		
	Interface						
	10/100/1000Base RJ-45 Ports	5	8	16	24		
Ports	1000Base SFP						
	PoE ports (In PoE Models)						
		Phy	sical Configuration				
Flash M	Flash Memory 2MB 2MB				2MB		
SDRAM				64KB (SRAM)	64KB (SRAM)		
Packet I	Buffer	128KB		512KB			
			Performance				
MAC Address Table		4	4K	8K			
Switching Capacity		10Gpbs	16Gpbs	32Gpbs	48Gpbs		
Forwarding Rate		7.4Mpps	11.9Mpps	23.8Mpps	35.7Mpps		
Jumbo I	Frame Support		Ç	9K			
			Environmental				
Dimensions (Inches) (W x H x D)		5.1 x 0.9 x 3.0	8.9 x 1.7 x 4.8	12.9 x 1.7 x 8.2	12.9 x 1.7 x 8.2		
Power Supply		5V DC, 2.5A Adapter	100-240V AC, 50/60 Hz				
Maximum Power Consumption (W)		2.5W	3.5W	8W	11W		
Operating Temperature (F)			32 to	104° F	° F		
Humidit (non-co	y ndensing)	10 to 90%					
Weight (	(lbs.)	0.6	2.0	4.0	4.4		

#### 6. APPENDIX



## 6.1 — Troubleshooting

Use the sections below to troubleshoot issues with the switch. If the problem persists, contact Araknis Networks® Customer Service at (866) 838-5052.

### 6.1.1 — No Connectivity

If one or more attached devices suffer from low or no network connectivity after installation, follow these steps to identify the issue:

- 1. Reset the switch and router, and then the device(s) with issues. If the problem persists, continue to step 2.
- 2. Are there one or multiple devices with issues?
  - A. If one device is having an issue:
    - i. Change the port the device is connected to on the switch. If the issue remains, there is a problem with the cabling or the attached device's network settings.
    - ii. Change the network connection type to DHCP and reset the connection. If an IP address is assigned to the device, then it should be working properly. If nothing changes, the cabling must be changed or repaired.
    - iii. Using a tested patch cable that is known to work correctly, swap out the cable from the switch to the network device and test again.
  - B. If multiple devices are having an issue:
    - Check the Power LED indicator on the switch to make sure it is receiving power. If it is not illuminated solid, see the next troubleshooting section, Power Issues, to determine source of the issue.
    - ii. Check the connection from the switch to its host device. The switch may have lost network access from the device feeding it. If the device feeding signal is okay then the cable may be damaged.
    - iii. Using a tested patch cable that is known to work correctly, swap out the cable from the switch to the network connection and test again.

### 6.1.2 — Power Issues

If the switch is not working correctly, and the power LED is not illuminated solid or is not illuminated at all, then try these steps to identify the issue:

- 1. Power cycle the switch. If the LED does not illuminate and remain solid, continue to the next step. Otherwise, test devices for connectivity and confirm the system is operating correctly. Make sure that ventilation is adequate. Overheating can cause the unit to shut down for self-protection.
- Change out the power cord or supply with another of the same type, and test again. The power supply or cable may be damaged or defective.



# 6.2. — Warranty



#### 2 Year Limited Warranty

Araknis Networks® products have a 2-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

6.3. —
Contacting
Technical Support

Phone: (866) 838-5052

Email: Support@araknisnetworks.com

