



100 - SERIES NETWORK SWITCHES QUICK START GUIDE

Unmanaged AV Rack Network Switches



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 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.

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 on the next page 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.



Welcome to Araknis® Networks

Thank you for choosing an Araknis 100 Series 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, autodetecting connections to other switches allowing straight-through patch cables throughout an installation.

This Quick Start Guide will guide you through the layout of the device, and show the basic steps for using the switch. For more information, visit www.araknisnetworks.com.

Araknis® 100-Series Overview

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

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 port switch has not been evaluated by UL.



Package Contents



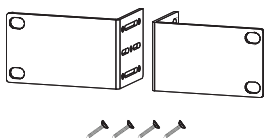
AN-100-SW-R Gigabit Ethernet Switch (1)



AC Power Cord (1)



Rubber Feet for flat surfaces (4)



Rack-Mount Kit (1)



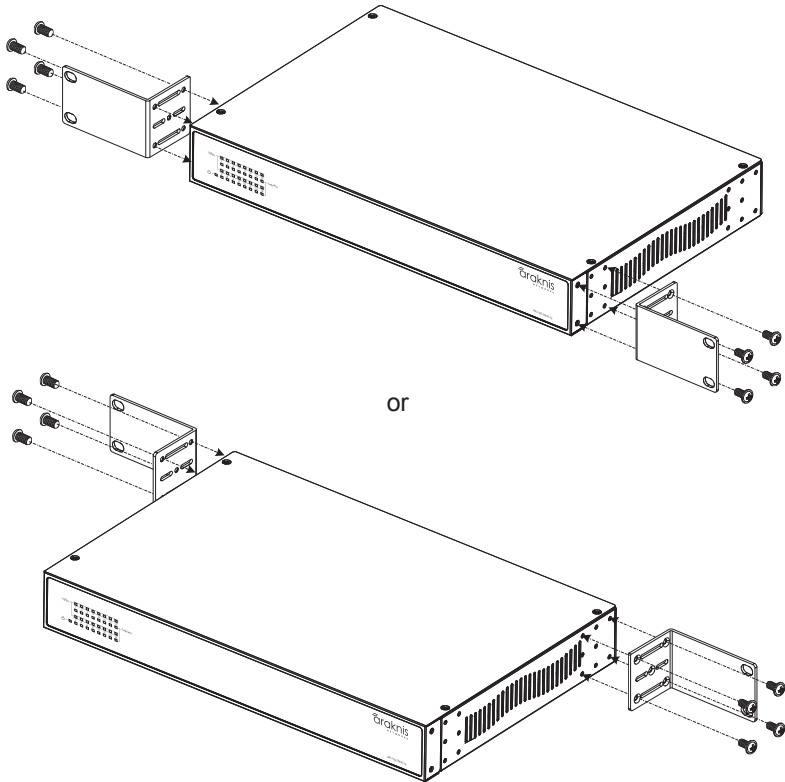
Quick Installation Guide (1)

Recommended for Installation

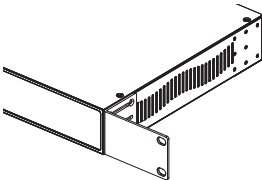
- #2 Phillips screwdriver
- Screws and Anchors - for wall-mount installation if applicable (use a fastener rated and specified for use in the wall material that can safely hold the weight of the model in use)
- Rack screws- for rack installation
- Drill and Drill Bit- for installation of wall-mount screws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



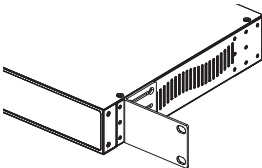
Rack Mounting



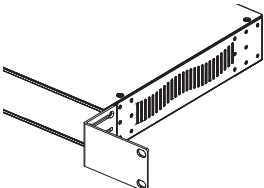
Mounting Options



Standard

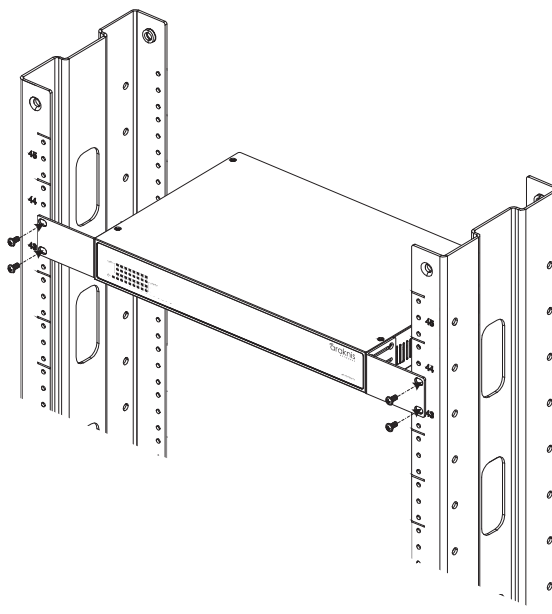


Protruding



Recessed

Rack Mounting (Continued)

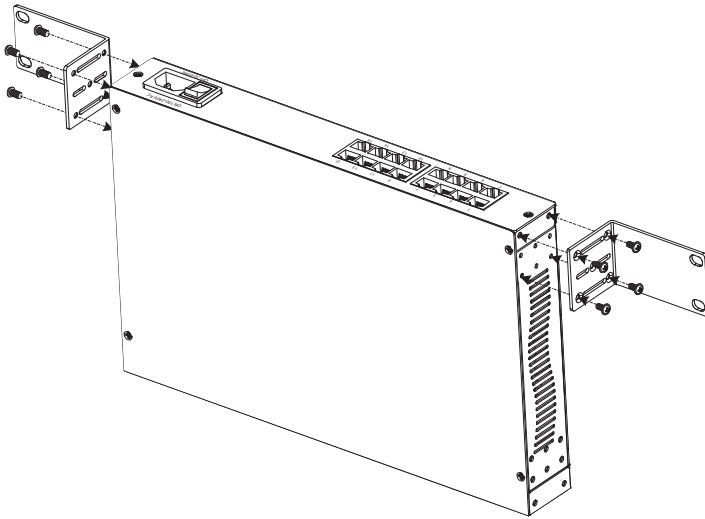


Rack Mounting Guidelines

- **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)."



Wall Mounting

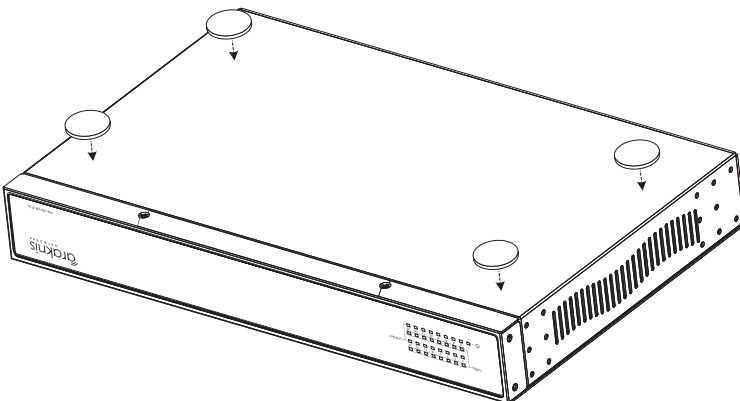


For wall mounting, we recommend using 4 drywall screws, minimum of 1-1/4" X 8 GA with anchors

Shelf Mounting

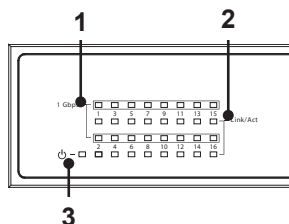


Caution: Do not stack more than 4 switches together. Do not stack any other equipment on top of the network switch to avoid possible interference or damage.





Front Panel Layout



1. 1 Gbps LED Indicator

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

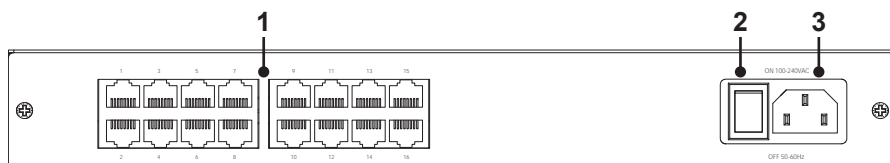
2. Link/Act LED Indicator

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

3. Power LED Indicator

Behavior	Description
On	Power is on
Off	Power is off

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

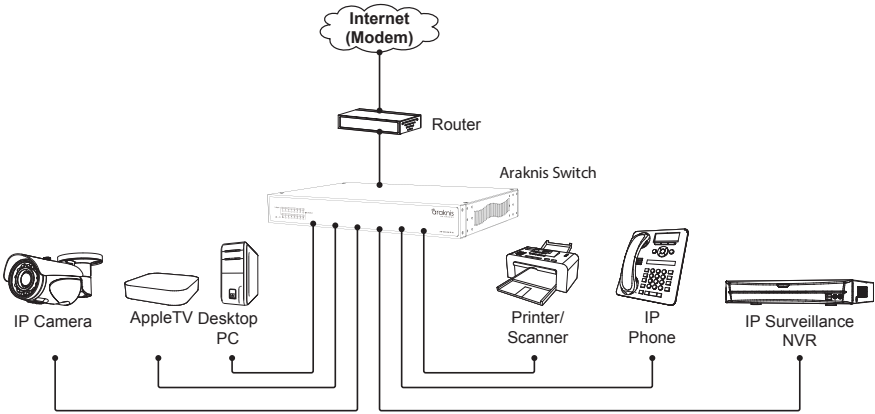
Attach an IEC power cable.



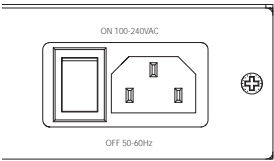
Note: AN-100-SW-R-8 does NOT have a master power switch



Installation



Powering the AN-100-SW-R Switch



Electrical Requirements

Input Voltage (AC Only)	100~240V AC, 50~60Hz
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Note: AN-100-SW-R-8 does NOT have a master power switch



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).

Contacting Technical Support

Phone: (866) 838-5052

Email: support@araknisnetworks.com

