

Araknis Networks 420 Series 16/24 Port PoE+ Switches

AN-420-SW-R-16-POE, AN-420-SW-F-16-POE,
AN-420-SW-R-24-POE, AN-420-SW-F-24-POE



Product Photos



Designed for projects that require advanced network management, these switches are the perfect middle ground between the 320 Series and 620 Series, offering entry-level multi-gig capabilities in professional grade hardware. Featuring advanced capabilities such as Layer 2 and Lite Layer 3 network management, networking professionals can better tailor the network experience to meet customer needs. Available with front- or rear-facing RJ-45 ports, each switch offers 2.5Gbps on select ports and 1Gbps on others, making them an excellent choice for projects of any size.

Araknis Networks 420 Series switches offer the same familiar user experience and interface you've come to expect from Araknis and include built-in OvrC support, giving you easy and intuitive remote access to manage network settings and troubleshooting capabilities.

Even More OvrC Capability

Araknis 420 switches offer enhanced control through OvrC and are future-ready for additional OvrC functionality as it evolves.

Fully Managed Layer 2 and Lite Layer 3 Management

This switch supports Layer 2 and Lite Layer 3 functionality for more complex network deployments. Layer 3 increases network efficiency by leveraging static, inter-VLAN routing.

Multi-Gig Capability

Partial multi-gig speeds up to 2.5Gbps on certain ports, ideal for Audio/Video over IP, Binary® MOIP, Wi-Fi 6, ISP services, and home servers. Further, 4 SFP+ ports capable of 10Gbps provide all necessary uplink connections.

5-Year Limited Warranty

Araknis Networks X20 Series Switches come with a 5-Year Limited Warranty covering parts and labor for repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty does not apply to products that have been abused, modified, or disassembled. Products to be repaired under this warranty must be returned to Snap One® or a designated service center with prior notification and an assigned return authorization number (RA).

Araknis Networks 420 Series

16/24 Port PoE+ Switches

Specs

| Specifications | AN-420-SW-R-16-POE | AN-420-SW-F-16-POE | AN-420-SW-R-24-POE | AN-420-SW-F-24-POE |
|-------------------------------------|---|---|---|---|
| Rack Spacing | 1U | 1U | 1U | 1U |
| 10M/100M/1G BASE-T RJ45 Ports | 12 | 12 | 16 | 16 |
| 100M/1G/2.5G BASE-T RJ45 Ports | 4 | 4 | 8 | 8 |
| SFP+ Uplink 10GBASE-X Ports | 4 | 4 | 4 | 4 |
| POE Ports | 16 Rear-Facing Ports | 16 Front-Facing Ports | 24 Rear-Facing Ports | 24 Front-Facing Ports |
| Max PoE Per Port | 30W | 30W | 30W | 30W |
| Simultaneously PoE Per Port | 15W | 15W | 15W | 15W |
| CPU Speed | 800MHz | 800MHz | 800MHz | 800MHz |
| Flash Memory | 1Gb(NAND)/128Mb(NOR) | 1Gb(NAND)/128Mb(NOR) | 1Gb(NAND)/128Mb(NOR) | 1Gb(NAND)/128Mb(NOR) |
| SDRAM Memory | 4G | 4G | 4G | 4G |
| Packet Buffer | 12MB | 12MB | 12MB | 12MB |
| MAC Table Size | 16K | 16K | 16K | 16K |
| Switching Capacity | 124Gbps | 124Gbps | 152Gbps | 152Gbps |
| Forwarding Rate | 176 Mpps | 176 Mpps | 216 Mpps | 216 Mpps |
| PoE Features | 802.3af/at, Auto PD Classification, Max Power Output per Port: 30W, Max Simultaneous Power per Port: 15W | 802.3af/at, Auto PD Classification, Max Power Output per Port: 30W, Max Simultaneous Power per Port: 15W | 802.3af/at, Auto PD Classification, Max Power Output per Port: 30W, Max Simultaneous Power per Port: 15W | 802.3af/at, Auto PD Classification, Max Power Output per Port: 30W, Max Simultaneous Power per Port: 15W |
| PoE Power Budget | 250W | 250W | 410W | 410W |
| L2 Features | SNMP, IGMPv1/v2/v3 Snooping, IGMP v2/v3, IGMP Querier, Unregistered MCast Filtering, 802.1X, LAG, Spanning Tree Protocol, Flow Control, EEE, Jumbo Frames, DHCP Snooping | SNMP, IGMPv1/v2/v3 Snooping, IGMP v2/v3, IGMP Querier, Unregistered MCast Filtering, 802.1X, LAG, Spanning Tree Protocol, Flow Control, EEE, Jumbo Frames, DHCP Snooping | SNMP, IGMPv1/v2/v3 Snooping, IGMP v2/v3, IGMP Querier, Unregistered MCast Filtering, 802.1X, LAG, Spanning Tree Protocol, Flow Control, EEE, Jumbo Frames, DHCP Snooping | SNMP, IGMPv1/v2/v3 Snooping, IGMP v2/v3, IGMP Querier, Unregistered MCast Filtering, 802.1X, LAG, Spanning Tree Protocol, Flow Control, EEE, Jumbo Frames, DHCP Snooping |
| L3 Features | IP Routing Static Routing DHCP Relay | IP Routing Static Routing DHCP Relay | IP Routing Static Routing DHCP Relay | IP Routing Static Routing DHCP Relay |
| Forwarding Mode | Store and Forward/LIFO | Store and Forward/LIFO | Store and Forward/LIFO | Store and Forward/LIFO |
| VLAN Features | 802.1Q Port-based VLANs Voice VLAN | 802.1Q Port-based VLANs Voice VLAN | 802.1Q Port-based VLANs Voice VLAN | 802.1Q Port-based VLANs Voice VLAN |
| Jumbo Frame Support | 10K | 10K | 10K | 10K |
| QoS Features | Priority Queues: 8 queues per port, Rate Limiting - Ingress: 16kbps~1000Mbps, Rate Limiting - Egress: 16kbps~1000Mbps, Scheduling: WRR, Strict Priority, WRR+Strict Priority CoS: 802.1p, IP DSCP/TOS, Physical Port, ACL (L2/L3/L4), ACL (IPv4), Storm Control (Per Port), Class Mapping, Policy Mapping | Priority Queues: 8 queues per port, Rate Limiting - Ingress: 16kbps~1000Mbps, Rate Limiting - Egress: 16kbps~1000Mbps, Scheduling: WRR, Strict Priority, WRR+Strict Priority CoS: 802.1p, IP DSCP/TOS, Physical Port, ACL (L2/L3/L4), ACL (IPv4), Storm Control (Per Port), Class Mapping, Policy Mapping | Priority Queues: 8 queues per port, Rate Limiting - Ingress: 16kbps~1000Mbps, Rate Limiting - Egress: 16kbps~1000Mbps, Scheduling: WRR, Strict Priority, WRR+Strict Priority CoS: 802.1p, IP DSCP/TOS, Physical Port, ACL (L2/L3/L4), ACL (IPv4), Storm Control (Per Port), Class Mapping, Policy Mapping | Priority Queues: 8 queues per port, Rate Limiting - Ingress: 16kbps~1000Mbps, Rate Limiting - Egress: 16kbps~1000Mbps, Scheduling: WRR, Strict Priority, WRR+Strict Priority CoS: 802.1p, IP DSCP/TOS, Physical Port, ACL (L2/L3/L4), ACL (IPv4), Storm Control (Per Port), Class Mapping, Policy Mapping |
| Management Features | OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNMP, Dual FW Image, Persistent Logging, Remote Logging | OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNMP, Dual FW Image, Persistent Logging, Remote Logging | OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNMP, Dual FW Image, Persistent Logging, Remote Logging | OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNMP, Dual FW Image, Persistent Logging, Remote Logging |
| Dimensions (W x H x D) | 17.32" x 1.73" x 16.14" | 17.32" x 1.73" x 16.14" | 17.32" x 1.73" x 16.14" | 17.32" x 1.73" x 16.14" |
| Line Voltage | 100-240V AC, 50/60 Hz | 100-240V AC, 50/60 Hz | 100-240V AC, 50/60 Hz | 100-240V AC, 50/60 Hz |
| Power Consumption | Max: 284.617W Device: 34.617W | Max: 281.927W Device: 31.927W | Max: 449.86W Device: 39.89W | Max: 447.41W Device: 37.41W |
| Operating Temperature | 32°F-122°F | 32°F-122°F | 32°F-122°F | 32°F-122°F |
| Operating Humidity | 10-90% | 10-90% | 10-90% | 10-90% |
| Weight | 10.54 lb | 10.42 lb | 11.50 lb | 11.36 lb |
| Certifications | FCC, IC, CE, RCM, UL | FCC, IC, CE, RCM, UL | FCC, IC, CE, RCM, UL | FCC, IC, CE, RCM, UL |
| Power Consumption (Without PoE) | Device: 34.617W; Device with POE: 284.617W | Device: 31.927W; Device with POE: 281.927W | Device: 39.86W; Device with POE:449.86W | Device: 37.41W; Device with POE:447.41W |
| ARP Entries | 192 | 192 | 192 | 192 |
| Switching Capacity (bi-directional) | 124Gbps | 124Gbps | 152Gbps | 152Gbps |
| Mp/s @ 88-bytes | 176 Mpps | 176 Mpps | 216 Mpps | 216 Mpps |
| ACL Features | Ingress/Egress MAC based IP based | Ingress/Egress MAC based IP based | Ingress/Egress MAC based IP based | Ingress/Egress MAC based IP based |
| ACLS | 16 | 16 | 16 | 16 |
| LAGs | 8 | 8 | 8 | 8 |
| CLI | Yes | Yes | Yes | Yes |