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).

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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 1000BASE-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, SNTP, Dual FW Image, Persistent Logging, Remote Logging	OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNTP, Dual FW Image, Persistent Logging, Remote Logging	OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNTP, Dual FW Image, Persistent Logging, Remote Logging	OvrC, FW Upgrade: TFTP, HTTP, Port Mirroring: One to One, Many to One, SNTP, 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