Araknis Networks® 920-Series L3 Managed 10G PoE++ Switch

AN-920-SW-F-12-POE
AN-920-SW-F-24-POE

Step into the future of networking with the flagship Araknis 920 series switch. Equipped with 10G PoE++ Type 4 ports to provide up to 90W of power per port, this switch can easily take on high-performance networking installs and power-intensive applications. An optional uplink expansion module adds 100G QSFP28 ports for more expansive network applications, while an optional second power supply can provide power redundancy and an increased PoE budget.

For Today's Network Needs

With Layer 3 on top of Layer 2 functionality, fully PoE++ Type 4 capable ports supporting up to 90W each, and 10G available on every port, this switch is perfect for high-speed applications such as AV over IP.

Greater Control with OvrC

Araknis works with OvrC to extend the switch configuration and management to the cloud allowing for faster deployments and remote troubleshooting without rolling a truck. Customers can use OvrC Connect to fix common issues on their network and to view their network status. Araknis also works with other popular control systems.

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	AN-920-SW-F-24-POE	AN-920-SW-F-12-POE
Form-Factor	1U Rackmount / 441.5 x 441.5 x44 mm	1U Rackmount / 441.5 x 441.5 x44 mm
Power Consumption (Without PoE)	175.8W Maximum / 123.1W Typical	135.4W Maximum /94.78W Typical
Line Voltage	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz
Weight (chassis Only)	5.705kg (12.6lbs)	5.57kg (12.3lbs)
Weight (chassis + PSU 1)	6.665kg (14.7lbs)	6.53kg (14.4lbs)
Weight (chassis + PSU 1 + PSU 2)	7.625kg (16.8lbs)	7.49kg (16.5lbs)
100M/1G/2.5G/5G/10G Base-T RJ45 Ports	24	12
Console Port (Micro-USB)	1	1
Dedicated MGMT Interface	Yes / 10M/100M/1G	Yes / 10M/100M/1G
Out-Of-Band Mgmt Port	1	1
1 x QSFP28 Port (Via Optional Uplink Module)	2	1
Power Redundancy	Yes	Yes
Hot swappable PSU (CRPS)	Yes (1 + 1)	Yes (1 + 1)
PoE Budget w/ 1 920W PSUs	727.5W (8 Ports@90W)	771.5W (8 Ports@90W)
PoE Budget w/ 2 920W PSUs	1647.5W (18 Ports@90W)	1691.5W (12 Ports@90W)
Max PoE Per Port	90W	90W
OTP	Yes	Yes
Variable Fan Speed	Yes	Yes
Fan Noise	Please See data below	Please See data below
CPU	1.7GHz, 2G RAM, 128MB Flash	1.7GHz, 2G RAM, 128MB Flash
MAC Entries	32K	32K
ARP Entries	512	512
Switching Capacity (bi-directional)	880Gbps	440Gbps
Forwarding Mode	Store and Forward/LIFO	Store and Forward/LIFO
Mp/s @ 88-bytes	1250	625
Packet Buffer	8MB	8MB
Jumbo frames	9K	9K
IP Mulitcast Routing Entries	64	64
Multicast IGMP Group Membership (L2/L3)	256/1024	256/1024
VLANs	255	255
ACLS	10K	10K
LAGs	128	128
CLI	Yes	Yes
QoS Features	Priority Queues: 7, Port-based Rate Limiting, WRR & SP Schedueling, Ingress/Egress, ACL (L2/L3/L4), ACL (IPv4/IPv6), Auto-VoIP, DiffServ/ Class Maps/Policy Maps, CoS/802.1p/DSCP, Single Rate Policing, Minimum Bandwidth	Priority Queues: 7, Port-based Rate Limiting, WRR & SP Schedueling, Ingress/Egress, ACL (L2/L3/L4), ACL (IPv4/IPv6), Auto-VoIP, DiffServ/Class Maps/Policy Maps, CoS/802.1p/DSCP, Single Rate Policing, Minimum Bandwidth
PoE Features	"Power Sequence Control (per port), Time Based (per port), Priority Control (per port), Perpetual PoE, Fast PoE, Configurable Usage Threshhold, 802.3bt Type 4 compliant 90W	Power Sequence Control (per port), Time Based (per port), Priority Control (per port), Perpetual PoE, Fast PoE, Configurable Usage Threshhold, 802.3bt Type 4 compliant 90W

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VLAN Features	802.1Q, Port Based, MAC Based, Voice VLAN, Private VLAN	802.1Q, Port Based, MAC Based, Voice VLAN, Private VLAN
ACL Features	VLAN-based, Control Plane, Time-based, IP/MAC/Protocol, Inbound/Outbound, Rate Limiting	VLAN-based, Control Plane, Time-based, IP/MAC/Protocol, Inbound/Outbound, Rate Limiting
Layer 2 Features	SNMP, IGMPv1/v2/v3 Snooping, MLDv1/v2 Snooping, IGMP Querier, Unregistered MCast Filtering, Auto-VoIP, LLDP-MED, LAG, STP, Storm Control (Per Port), Loop Protection, RSPAN	SNMP, IGMPv1/v2/v3 Snooping, MLDv1/v2 Snooping, IGMP Querier, Unregistered MCast Filtering, Auto-VoIP, LLDP-MED LAG, STP, Storm Control (Per Port), Loop Protection, RSPAN
Layer 3 Features	DHCP Client, Port Based Routing, VLAN Based Routing, Static Routing, Static Reject, IP Multicast Routing (PIM-SM), IP Multicast Static Routing, IP Source Specific Mulitcast	DHCP Client, Port Based Routing, VLAN Based Routing, Static Routing, Static Reject, IP Multicast Routing (PIM-SM), IP Multicast Static Routing, IP Source Specific Mulitcast
Management Features	OvrC Management, Web/Telnet/CLI/SNMP, Full RESTful API, Dual Firmware Image, Editable Configuration File (CLI), SSLv3/TLS1.2/SSHv2(SHA2), Persistent Logging, Remote Logging	OvrC Management, Web/Telnet/CLI/SNMP Full RESTful API, Dual Firmware Image, Editable Configuration File (CLI) SSLv3/TLS1.2/SSHv2(SHA2), Persistent Logging, Remote Logging
Temperature Range	Operating: 0-50C	Operating: 0-50C
Humidity Range	0-90% non-condensing	0-90% non-condensing
Certifications	FCC/IC/CE/AU/cTUVus/IEC62368-1/ERP/RoHS	FCC/IC/CE/AU/cTUVus/IEC62368-1/ERP/RoHS

Acoustic Table

Model	PoE Power Load	Ambient Temperature	Acoustic
AN-920-SW-F-24-POE CRPS*1	727.5W	30°C	61.3dBa
	727.5W	50°C	71.1dBa
AN-920-SW-F-24-POE CRPS*2	1647.5W	30°C	63.3dBa
	1647.5W	50°C	73.1dBa
AN-920-SW-F-12-POE CRPS*1	771.5W	30°C	61.3dBa
	771.5W	50°C	71.1dBa
AN-920-SW-F-12-POE CRPS*2	1691.5W	30°C	63.3dBa
	1691.5W	50°C	73.1dBa