Contract Item Number	Item Description	Alternative "Or Equal" Submission	Unit Cost	Unit of Measure	Estimated Quantity	Total Cost
3.1.1	Vitek - NDAA Compliant 8 - Channel Network Video Recorder or NVR, or Equal		$430.00	Ea	50	$21,500.00
3.1.2	Vitek - NDAA Compliant 16 - Channel Network Video Recorder or NVR, or Equal		$670.00	Ea	50	$33,500.00
3.1.3	Vitek - NDAA Compliant 32 - Channel Network Video Recorder or NVR, or Equal		$806.00	Ea	50	$40,300.00
3.1.4	Vitek - NDAA Compliant Hybrid Digital Video Recorder or DVR/NVR, or Equal		$628.00	Ea	50	$31,400.00
3.1.5	Vitek - NDAA Compliant 4MP Bullet IP Camera, or Equal		$196.00	Ea	500	$98,000.00
3.1.6	Vitek - NDAA Compliant 5MP Dome IP Camera, or Equal		$203.00	Ea	500	$101,500.00
3.1.7	Vitek - NDAA Compliant 6MP 360° IP Panoramic Dome Camera, or Equal		$272.00	Ea	500	$136,000.00
3.1.8	Vitek - NDAA Compliant 8MP 180° IP Panoramic Bullet Camera, or Equal		$1,162.00	Ea	500	$581,000.00
3.1.9	Vitek - NDAA Compliant 4MP PTZ IP Camera, or Equal		$304.00	Ea	500	$152,000.00
3.1.10	Vitek - NDAA Compliant 8MP PTZ IP Camera, or Equal		$1,112.00	Ea	500	$556,000.00
3.1.11	Vitek - NDAA Compliant 2MP HD Analog Dome Camera, or Equal		$102.00	Ea	500	$51,000.00
3.1.12	Vitek - NDAA Compliant 8MP Analog Dome Camera, or Equal		$171.00	Ea	500	$85,500.00
3.1.13	Vitek - NDAA Compliant 2MP HD Analog Bullet Camera, or Equal		$91.00	Ea	500	$45,500.00
3.1.14	Vitek - NDAA Compliant 8MP Analog Bullet Camera, or Equal		$140.00	Ea	500	$70,000.00
3.1.15	Vitek - NDAA Compliant Video Management System, or Equal		$5,331.00	Ea	100	$533,100.00
3.1.16	Extreme Networks Products 16 Port Network Switch, or Equal	Alternative "Or Equal" Submission	$1,020.00	Ea	50	$51,000.00
3.1.17	Extreme Networks Products 24 Port Newtork Switch, or Equal	Alternative "Or Equal" Submission	$1,020.00	Ea	50	$51,000.00
3.1.18	Extremet Networks Products 48 Port Network Switch or Equal	Alternative "Or Equal" Submission	$2,520.00	Ea	100	$252,000.00
3.1.19	Extreme Networks Power Cord, or Equal	Alternative "Or Equal" Submission	$0.00	Ea	50	$0.00
3.1.20	APC Back-UPS 850VA, 120V, USB charging portsn NEMA outlets, or Equal		$147.00	Ea	50	$7,350.00
3.1.21	Ditek Uninterruptible Power Supplye, or Equal		$911.00	Ea	50	$45,550.00
3.1.22	Western Digital Purple Surveillance Hard Drive, or Equal		$330.00	Ea	250	$82,500.00
3.1.23	SanDisk 240GB SSD Plus, or Equal		$39.00	Ea	50	$1,950.00
3.1.24	Seagate Skyhawk 2TB Surveillance Hard Drive, or Equal		$95.00	Ea	50	$4,750.00
3.1.25	Seagate Skyhawk 4TB Surveillance Hard Drive, or Equal		$126.00	Ea	50	$6,300.00
3.1.26	Seagate Skyhawk 6TB Surveillance Hard Drive, or Equal		$193.00	Ea	50	$9,650.00
3.1.27	Seagate Skyhawk 8TB Surveillance Hard Drive, or Equal		$273.00	Ea	50	$13,650.00
3.1.28	Seagate Skyhawk 10TB Surveillance Hard Drive, or Equal		$342.00	Ea	50	$17,100.00
3.1.29	Seagate Skyhawk 12TB Surveillance Hard Drive, or Equal		$388.00	Ea	500	$194,000.00
3.1.30	Mounting Brackets forVitek NDAA Compliant 4MP Bullet IP Camera, or Equal					
3.1.30.1	Junction Box: VT-JB08 or Equal		$14.00	Ea	150	$2,100.00
3.1.30.2	Pole Mount Bracket: VT-TPLMT or Equal		$21.00	Ea	150	$3,150.00
3.1.30.3	Corner Mount Bracket: VT-TCNMT or Equal		$21.00	Ea	150	$3,150.00
3.1.31	Mounting Brackets forVitek NDAA Compliant 5MP Dome IP Camera, or Equal					
3.1.31.1	Junction Box: VT-TJB010 or Equal		$18.00	Ea	125	$2,250.00
3.1.31.2	Wall Mount: VT-TWMT-A2 or Equal		$21.00	Ea	125	$2,625.00
3.1.31.3	Pendant Mount: VT-TPDMT-A2 or Equal		$21.00	Ea	125	$2,625.00
3.1.31.4	Semi Flush Mount: VT-TFMT-L2 or Equal		$28.00	Ea	125	$3,500.00
3.1.32	Mounting Bracket for Vitek NDAA Compliant 6MP 360° Transcendent Dome Camera, or Equal					
3.1.32.1	Pedestal Mount: VT-TPDM-F or Equal		$21.00	Ea	150	$3,150.00

3.1.32.2	Wall Mount: VT-TWM-F or Equal		$21.00	Ea	150	$3,150.00
3.1.32.3	Junction Box: VT-TJB-F1 or Equal		$21.00	Ea	150	$3,150.00
3.1.33	Mounting Bracket for Vitek NDAA Compliant 8MP 180° Transcendent Bullet Camera, or Equal			███████	███████	███████
3.1.33.1	Corner Mount: VT-TCNMT-W or Equal		$21.00	Ea	250	$5,250.00
3.1.33.2	Pole Mount: VT-TPLMT-W or Equal		$21.00	Ea	250	$5,250.00
3.1.34	Mounting Bracket for Vitek NDAA Compliant 8MP PTZ Camera or Equal.			███████	███████	███████
3.1.34.1	Wall Mount: VT-TP23HR-WM or Equal		$35.00	Ea	250	$8,750.00
3.1.34.2	Pendent/Ceiling Pole Mount: VT-TPT20HR-PM or Equal		$32.00	Ea	250	$8,000.00
					Overall Total Cost	$3,329,200.00

Bidder/Vendor Information:

Name:AlarmPro, LLC
Address:PO Box 343
St. Albans, WV 25177
Phone No.:(304)722-5006
Fax No.:
Email Address:cchandler@alarmprosecurity.com
Authorized Signature *Casey Chandler*

NOTES:

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification. Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

☑ Addendum No. 1	☐ Addendum No. 6
☑ Addendum No. 2	☐ Addendum No. 7
☐ Addendum No. 3	☐ Addendum No. 8
☐ Addendum No. 4	☐ Addendum No. 9
☐ Addendum No. 5	☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Alarm Pro, LLC

Company

Casey Chomelly

Authorized   Signature

6/4/24

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Casey Chandler, owner
(Name, Title)

Casey Chandler, owner
(Printed Name and Title)

PO Box 343, St.Albans WV 25177
(Address)

_304.722.5006_
(Phone Number) / (Fax Number)

cchandler@alarmprosecurity.com
(E-mail address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand that this Contract is subject to the provisions of West Virginia code and rules and applicable adopted procedures; therefore, purchases and contracts violating West Virginia Code and rules are void and of no effect.

AlarmPro, LLC
(Company)

Casey Chandler
(Authorized Signature)   Representative Name, Title) _Casey Chandler, owner_

Casey Chandler, owner
(Printed Name & Title of Authorized Representative)

(Date) _6/4/24_

_304. 722.5006_
(Phone Number) (Fax Number)

The Signamax C-500 series of fully managed switches are designed for demanding network environments with dual hot swappable power supplies and 10G SFP+ Uplinks. All switches have the capacity for concurrent 30W per port PoE+ delivery. The C-500 switches have full Layer 2 capabilities with enhanced access security, ACLs, traffic prioritization, and IPv6 support.

The C-500 Series switches are built from the ground up for easy deployment and management without compromising any of the power and flexibility traditionally found in enterprise-class switches.

- Dual hot-swappable power supplies for total PoE budget of 1640W

- Non-blocking switches with up to 176Gbps bandwidth

- Static IP Routing & DHCP Server

- 8 dedicated QoS queues for converged voice, video, and data applications

- IEEE 1588v2 Precision Time Protocol (PTP)

- Built in Device Management Sytem (DMS)

- 4 SFP+ 10G uplink ports

- Advanced Layer 2 functionality such as ITU-T G.8031 and ITU-T G.8032 Ethernet Linear and Ring Protection Switching

- 5 year hardware warranty & support at no additional cost

Features for deployment in any solution.

INTELLIGENT POE:

The SC50010 delivers a default 820W PoE budget but can be extended up to 1640W using a secondary AP50030 power supply. The innovative PoE auto-check feature detects if the powered device stops communicating and automatically reboots the device to minimize downtime and operational costs. The C-500 series supports dynamic power allocation and PoE ports can be individually configured for prioritization, scheduling, and consumption.


ENTERPRISE GRADE:

The C-500 Series runs a sophisticated operating system that provides a variety of advanced features including:

- Static Routing and DHCP Server
- Dynamic VLAN assignment and Auto Voice VLAN
- Link Aggregation (LACP)
- Ethernet Ring Protection Switching (ERPS)
- IGMP and MLD snooping

DEVICE MANAGEMENT SYSTEM (DMS):

The C-500 Series Device Management System automatically detects and classifies connected network devices. Devices can be placed on an upload floorplan or using Google Maps. The DMS monitors all traffic and packets to the devices and provides day/week analysis and can generate an alarm if an abnormal condition exits. Administrators can view device information including the type, name, address and PoE usage and can reboot or remotely login to the device directly from the DMS system.
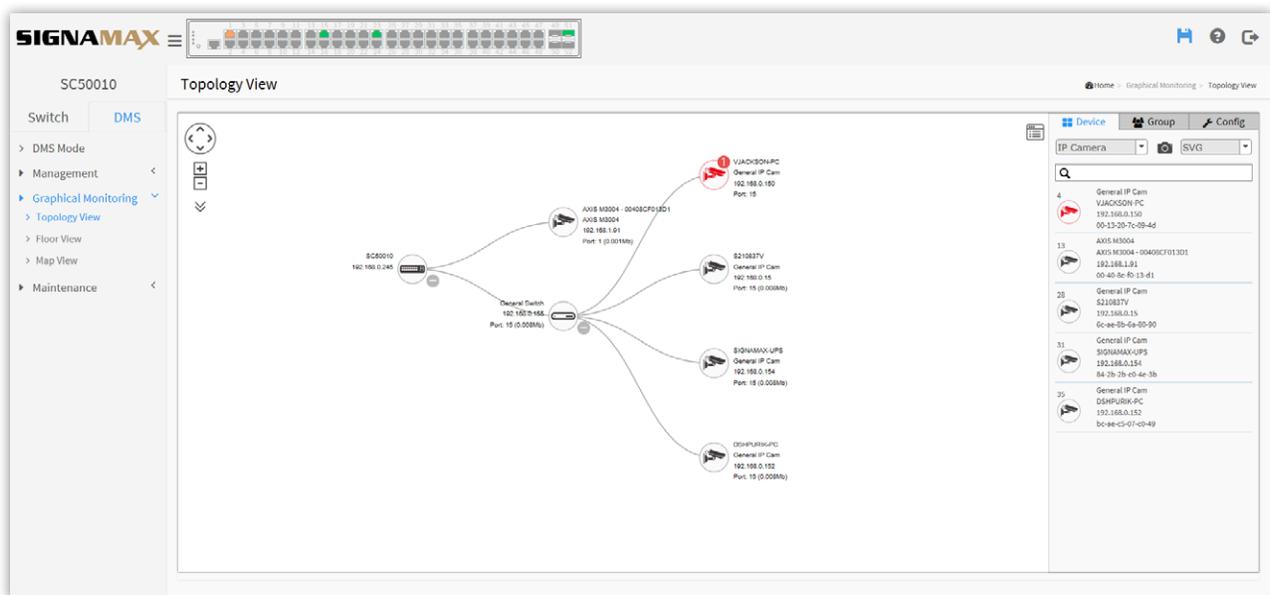
C-500 Specifications

PORTS
48 10/100/1000 RJ-45 PoE+ Ports
4 SFP+ 100Mb/1G/10G Ports

PERFORMANCE
32K MAC Addresses
Switching Capacity: 176Gbps
Forwarding Rate: 130.944 Mpps
512 MB DRAM
32 Mb Packet Buffer
64 MB Flash memory
Supports 14K Jumbo Frames
Wirespeed forwarding
IPv4/IPv6 Dual Protocol Stack

SECURITY
DDOS Protection
Port Isolation
Broadcast/Multicast/Unknown Storm Control
Up to 512 Access Control Lists (ACL) based on L2/L3/L4
Port Security
AAA (IEEE 802.1X RADIUS/TACACS+)
IP Source Guard
DHCP Snooping
Encrypt switch access with SSH and SSL

LAYER 3
Up to 130 Static routes
DHCP v4/v6 Client / DHCP Relay / DHCP Server

LAYER 2
SFP+ ports support IEEE 802.3u (100FX),
802.3z (1000SX/LX/LHX/ZX), 802.3aq (10GBase-SR/LR/LRM)
IEEE 802.3x Flow Control
Spanning Tree:
   IEEE 802.1D Spanning Tree Protocol (STP),
   IEEE 802.1w Rapid Spanning Tree Protocol (RSTP),
   IEEE 802.1s Multiple Rapid Spanning Tree Protocol
   Loopback Detection
   BPDU Filter/Guard
   Root Guard
Up to 4094 IEEE 802.1Q (802.3ac) VLANs:
   Port-Based/MAC-Based/Protocol-Based(IEEE 802.1v)
   Guest VLAN
   Auto Voice VLAN
   Dynamic VLAN Assignment
   GARP VLAN Registration Protocol (GVRP)
802.3ad Link Aggregation (static and LACP)
Ring Management:
   ITU-T G.8031 Ethernet Linear Protection Switching
   ITU-T G.8032 Ethernet Ring Protection Switching (ERPS)
Multicast:
   IGMP v1/v2/v3 snooping
   IGMP Querier
   IGMP Immediate leave
   MLD v1/v2 Snooping
   Multicast VLAN Registration (MVR)
IEEE 802.1AB LLDP/LLDP-MED
IEEE 802.3az Energy Efficient Ethernet
Q-in-Q

MANAGEMENT
Web-based Graphical User Interface (GUI)
Industry-standard CLI (Telnet/SSH) with context-sensitive help
Console management port on the front panel for ease of access
Comprehensive SNMP MIB support for standards based device management
Dual Image/Configuration
RMON (groups 1,2,3 and 9)
NTP/SNTP
IEEE 1588v2 Precision Time Protocol (PTP)
SNMP v1/v2/v3

QoS
Rate Limiting (Ingress/Egress Port-Based)
Priority Queues Schedule (WRR)
Port-Based QoS
IPv4/IPv6 DSCP
DiffServ
Auto VOIP
8 HW Queues per port for 802.1p priority tagging
Policy based dynamic QoS

PoE
Support IEEE 802.3af/IEEE802.3at on each port
Dynamic Power Allocation
PoE Scheduling
Auto-checking
PoE Budget:
   1 Power Supply: 820W
   2 Power Supplies: 1640W

DIAGNOSTIC TOOLS
Cable Test
Digital Diagnostic Monitoring (DDM) on SFP Ports
Ping polling for IPv4 and IPv6
Port Mirror (One to One, One to Many)
Remote Mirror
Event/Error Log/Syslog/SMTP Alerts
SFlow

PHYSICAL CHARACTERISTICS
Dimensions: 17.4 x 17.1 x 1.73 in (44.2 x 44 x4 4.4 cm)
Weight: 12.45 lb (5.6 kg)
Heat Dissipation:
   1 Power Supply: 3373.85 Btu/H
   2 Power Supplies: 5551.92 Btu/H
MTBF: 69K hrs

ELECTRICAL CHARACTERISTICS
Power Supply AC Input: 100 - 240 V AC, 50/60 Hz
Max Power Consumption: 1840W
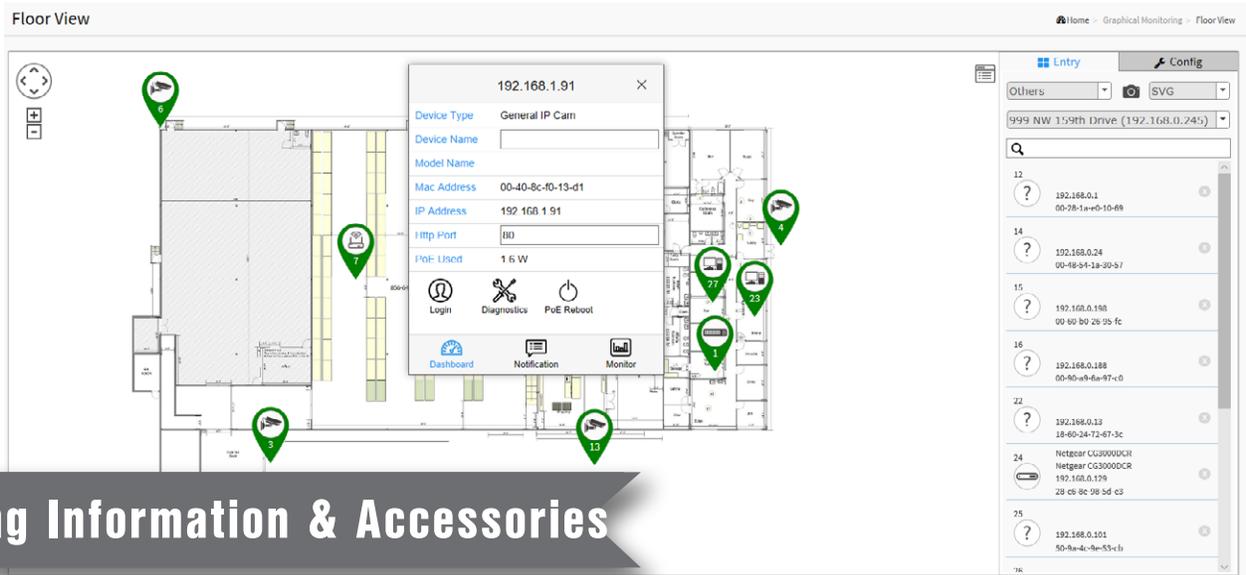
ENVIRONMENTAL REQUIREMENTS
Operating Temperature: 32 to 113°F (0 to 45°C)
Storage Temperature: -4 to 158°F (-20 to 70°C)
Operating/Storage Humidity: 10 to 95% (non-condensing)

CERTIFICATIONS
Emissions: CE Mark: EN 55022, Class A; FCC Part 15 Class A
Immunity: IEC 61000-3-3, 61000-4-2/3/4/5/6/11

WARRANTY
Five Years (Including power supply)

Ordering Information & Accessories

ETHERNET SWITCHES

PART NO.	DESCRIPTION
SC50010	48 Port Gigabit PoE Managed Switch with 4 SFP+ Ports

ACCESSORIES

Power Supplies

AP50030	920W Extended Power Supply

Replacement Cables

AC30030	C-500 Series Console Cable

Replacement Mounting Kits

AM30140	C-500 48 Port Switches Rack Mount Kit

SFP MODULES

PART NO.	DESCRIPTION
065-80SR10G300M	10GBaseSR SFP+ Module 850nm up to 300m
065-80LR10G10KM	10GBaseLR SFP+ Module 1310nm up to 10km
065-80PDAC1M	10G SFP+ Direct Attach Cable, 1m
065-79SXMG	1000SX Multi-Mode SFP Module 850nm up to 550m
065-79LXMG	1000LX Single-Mode SFP module 1310nm up to 10km
065-79ZXMG	1000ZX Single-Mode SFP Module 1550nm up to 80km
065-73FXMM5MG	100FX / OC-3 / STM-1 Multi-Mode SFP Module 1300nm up to 5km
065-73FXSM20MG	100FX / OC-3 / STM-1 Single-Mode SFP Module 1300nm up to 20km
065-791000TTXMG	10/100/1000TX SFP Module 100m span

For a complete list of SFP Modules visit www.signamax.com.

SIGNAMAX®

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T: 305-944-7710/800 446 2377 E: sales@signamax.com

CONNECT WITH US

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www.signamax.com

The Signamax C-300 series of fully managed switches delivers full Layer 2 capabilities with enhanced access security, ACLs, traffic prioritization, and IPv6 support. The security & reliability provided by this series is ideal for branch and campus implementations.

The C-300 Series switches are built from the ground up for easy deployment and management without compromising any of the power and flexibility traditionally found in enterprise-class switches.


- Cost-effective, reliable, and secure Layer 2 switches

- Non-blocking switches with up to 104 Gbps bandwidth support

- Fanless design on selected models for silent operation

- Up to 740 watts PoE budget with PoE+ support and dynamic power allocation for powering APs, phones, cameras, and other PoE-enabled devices

- 8 dedicated QoS queues for converged voice, video, and data applications

- Integrated mounting brackets for rack installation

- SFP uplink interfaces on all models

- Static IP routing & RIP support

- Low power consumption, quiet acoustic design, and shallow rack depth options, enabling flexible deployment in wiring closets as well as offices and classrooms

- 5 year hardware warranty & support at no additional cost

Features for deployment in any solution.

INTELLIGENT POE:

The C-300 series includes several PoE options, all of which support PoE+ up to 30W on all ports. The SC30050 is a full-PoE fanless design which can provide a total of 125W while the SC30020 delivers a default 370W but can be extended up to 740W using a AP50010 power chassis. The innovative PoE scheduling allows the administrator complete control and flexibility regarding the power provided. The C-300 series supports dynamic power allocation and PoE ports can be individually configured for prioritization, scheduling, and consumption.
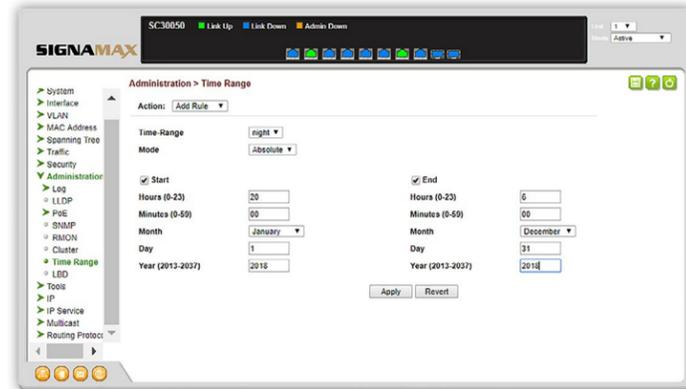

ENTERPRISE GRADE:

The C-300 Series runs a sophisticated operating system that provides a variety of advanced features including:

- Static Routing and RIP
- Dynamic VLAN assignment and Auto Voice VLAN
- Link Aggregation (LACP)
- IGMP and MLD snooping
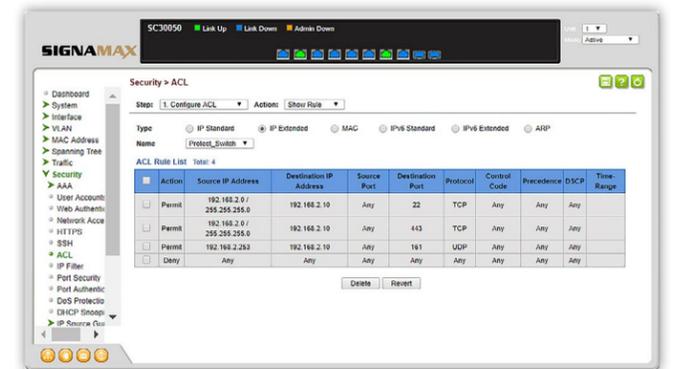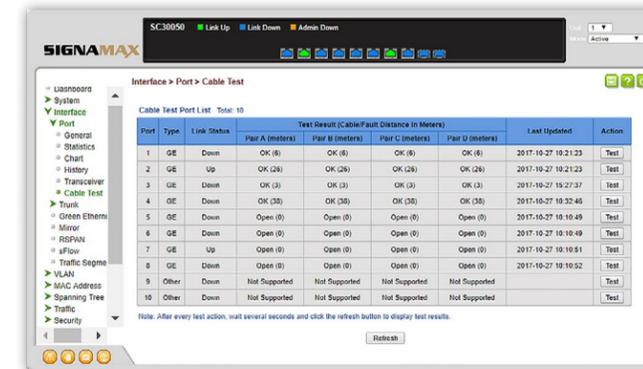- 802.3az and Green-Ethernet

SIMPLIFIED MANAGEMENT:

The easy to use C-300 Graphical User Interface includes an intuitive dashboard that provides a unified view of event logs, traffic statistics, and monitoring which simplifies managing and growing network deployments. The C-300 Series switches can be fully deployed in minutes, and there is no need for a console cable or any command line configuration to get started or even recover from misconfiguration. The auto firmware upgrade feature ensures the network is kept up-to date with bug fixes, security updates, and new features without overburdening the network administrator.
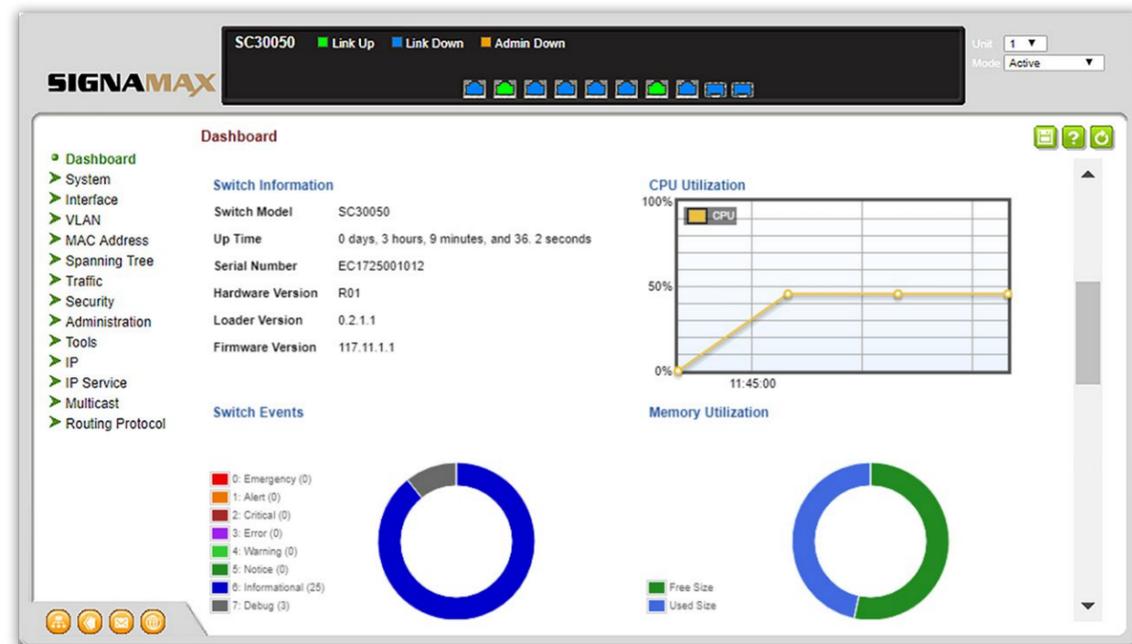
DIAGNOSTICS:

The C-300 includes several powerful diagnostic capabilities including real-time cable testing, automatic Power On Self Test, a diagnostics LED, dual firmware and configuration files, and Digital Diagnostic Monitoring (DDM). Port Mirroring and sFlow can be used for gaining visibility into network activity from the edge to the core. The C-300 also includes network utilities for connectivity testing.

ENHANCED SECURITY:

The C-300 series includes sophisticated security features such as DDOS protection, Port Security, MAC authentication, ACLs and 802.1X port-based access control. SSH and SSL/HTTPS encryption provide secure network management.
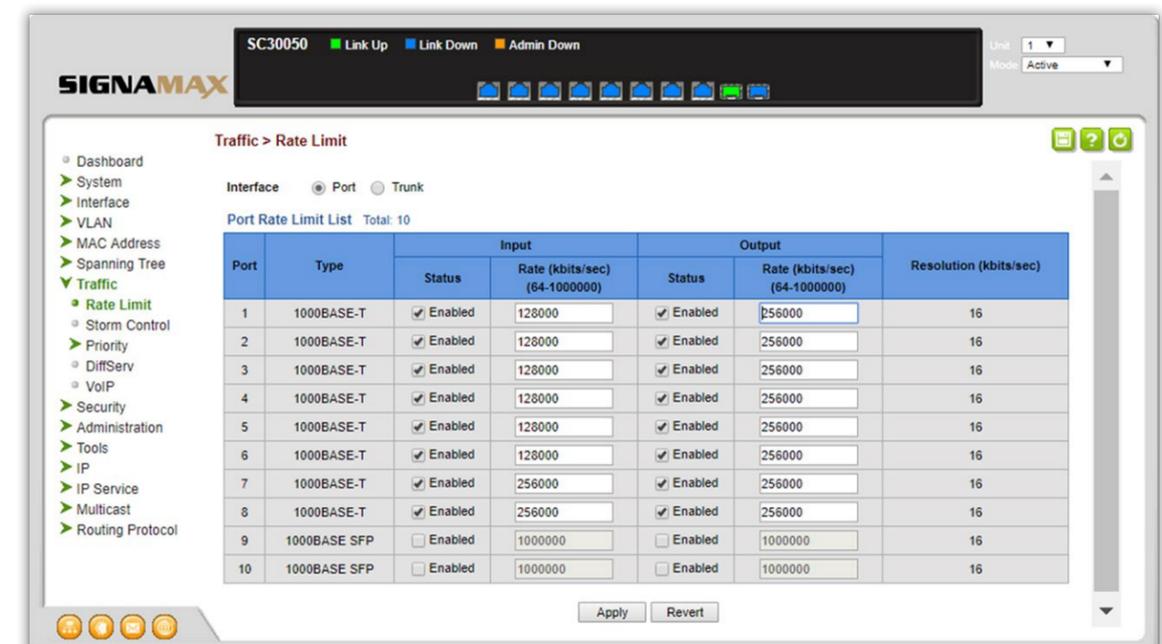

FIBER CONNECTIVITY:

All C-300 Series switches include fiber connectivity options for your growing networks. The 24 and 48 port models include four SFP ports while the 8 port models include two SFP ports, each providing up to 1 Gbps uplinks.

QUALITY OF SERVICE (QoS):

Traffic prioritization (IEEE 802.1p) allows real-time traffic classification with eight egress queues and uses weighted round robin (WRR), strict priority or Hybrid QoS. The C-300 Series simplifies QoS configuration by allowing prioritization by port or VLAN. Class of Service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ. Rate limiting establishes per-port ingress/egress maximums for all traffic or for broadcast, multicast, or unknown destination traffic, and flow control helps deliver reliable communication during full-duplex operation.

C-300 Series Models & Specifications

PART NUMBER		SC30010	SC30020	SC30030
Switches				
Ports	RJ-45 10/100/1000 Ports	48	24	24
	SFP Uplink Ports	4	4	4
	PoE Ports	X	24	24
PoE	PoE Budget	X	370W (740W with AP50010)	200W
Performance	Switching Capacity	104Gbps	56Gbps	56Gbps
	Forwarding Rate	77.4Mpps	41.7Mpps	41.7Mpps
	MAC Address Table	16K	8K	8K
Electrical & Environmental	Max Power Consumption	40W	490W	260W
	Acoustic Noise	54.2 dB (A)	49.7 dB (A)	46.1 dB(A)
	Heat Dissipation	136 (Btu/H)	1679 (Btu/H)	887 (Btu/H)
	MTBF	534K hrs	370K hrs	681K hrs
	Operating Temperature	32 to 122 ºF (0 to 50 ºC)	32 to 113 ºF (0 to 45 ºC)	32 to 122 ºF (0 to 50 ºC)
Physical Characteristics	Dimensions	17.3 x 8.6 x 1.7 in (44 x 22 x 4.4 cm)	17.3 x 8.6 x 1.7 in (44 x 22 x 4.4 cm)	17.3 x 8.6 x 1.7 in (44 x 22 x 4.4 cm)
	Weight	5.51 lb (2.5 kg)	6.85 lb (3.1 kg)	6.18 lb (2.8 kg)
	Fanless	-	-	-

PART NUMBER		SC30040	SC30050	SC30060
Switches				
Ports	RJ-45 10/100/1000 Ports	24	8	8
	SFP Uplink Ports	4	2	2
	PoE Ports	X	8	X
PoE	PoE Budget	X	125W	X
Performance	Switching Capacity	56Gbps	20Gbps	20Gbps
	Forwarding Rate	41.7 Mpps	14.9Mpps	14.9Mpps
	MAC Address Table	8K	8K	8K
Electrical & Environmental	Max Power Consumption	20W	160W	8W
	Acoustic Noise	0 dB (A)	0 dB (A)	0 dB(A)
	Heat Dissipation	68 (Btu/H)	546 (Btu/H)	27 (Btu/H)
	MTBF	564K hrs	546K hrs	554K hrs
	Operating Temperature	32 to 122 ºF (0 to 50 ºC)	32 to 104 ºF (0 to 40 ºC)	32 to 122 ºF (0 to 50 ºC)
Physical Characteristics	Dimensions	17.3 x 8.6 x 1.7 in (44 x 22 x 4.4 cm)	12.9 x 8 x 1.67 in (33 x 20.4 x 4.26 cm)	7.7 x 4.6 x 1.4 in (19.6 x 11.7 x 3.6 cm)
	Weight	4.86 lb (2.2 kg)	5.34 lb (2.4 kg)	1.81 lb (816 g)
	Fanless	Yes	Yes	Yes

■ SPECIFICATIONS

PERFORMANCE
Up to 16K MAC Addresses
256MB DRAM
Up to 12Mb Packet Buffer
32MB Flash memory
Supports 10K Jumbo Frames
Wirespeed forwarding
IPv4/IPv6 Dual Protocol Stack

SECURITY
DDOS Protection
CPU Guard (CPU Protection)
Port Isolation
Storm Control
Broadcast/Multicast/Unknown Storm Control
Up to 512 Access Control Lists (ACL) based on L2/L3/L4
Port Security
MAC Authentication
Dynamic ARP Inspection
AAA (IEEE 802.1X RADIUS/TACACS+)
IP Source Guard
Web Authentication
DHCP Snooping
Encrypt switch access with SSH and SSL

LAYER 3
Up to 56 Static routes
RIPv1/RIPv2(apart from SC30010)
DHCP v4/v6 Client / DHCP Relay
Static Multicast Routing

LAYER 2
SFP ports support IEEE 802.3u (100FX), 802.3z (1000SX/LX/LHX/ZX)
IEEE 802.3x Flow Control
Spanning Tree:
   IEEE 802.1D Spanning Tree Protocol (STP),
   IEEE 802.1w Rapid Spanning Tree Protocol (RSTP),
   IEEE 802.1s Multiple Rapid Spanning Tree Protocol (MSTP,64 instances)
   Loopback Detection
   BPDU Filter/Guard
   BPDU Forward
   Root Guard
Up to 4094 IEEE 802.1Q (802.3ac) VLANs:
   Port-Based/MAC-Based/Protocol-Based(IEEE 802.1v)
   Guest VLAN
   Auto Voice VLAN
   Dynamic VLAN Assignment
802.3ad Link Aggregation (static and LACP)
Multicast:
   IGMP v1/v2/v3 snooping
   IGMP Filtering/Throttling:
   IGMP Queries
   IGMP Immediate leave
   MLD Snooping
   mDNS
IEEE 802.1AB LLDP/LLDP-MED
IEEE 802.3az Energy Efficient Ethernet
Q-in-Q

MANAGEMENT
Web-based Graphical User Interface (GUI)
Industry-standard CLI (Telnet/SSH) with context-sensitive help
Console management port on the front panel for ease of access
Switch Cluster allows up to 36 switches to be managed from a single switch
Comprehensive SNMP MIB support for standards based device management
Dual Image/Configuration
RMON (groups 1,2,3 and 9)
NTP/SNTP
Auto Firmware Upgrade
SNMP v1/v2/v3

QoS
Rate Limiting (Ingress/Egress Port-Based)
Priority Queues Schedule (WRR/Strict Priority/Hybrid QoS)
Port-Based QoS
IPv4/IPv6 DSCP
DiffServ
Auto VOIP
8 HW Queues per port for 802.1p priority tagging
Policy based dynamic QoS

PoE
Support IEEE 802.3af/IEEE802.3at on each port
Dynamic Power Allocation
PoE Scheduling

DIAGNOSTIC TOOLS
Diag LED
Cable Test
Digital Diagnostic Monitoring (DDM) on SFP Ports
Ping polling for IPv4 and IPv6
TraceRoute for IPv4 and IPv6
Port Mirror (One to One, One to Many)
Remote Mirror
Event/Error Log/Syslog/SMTP Alerts
SFlow
SC30010 trace multi port
Other models Trace on port -Ingress only

ELECTRICAL CHARACTERISTICS
Power Supply AC Input: 100 - 240 V AC, 50/60 Hz

ENVIRONMENTAL REQUIREMENTS
Storage Temperature: -40 to 158ºF (-40 to 70ºC)
Operating/Storage Humidity: 10 to 90% (non-condensing)

CERTIFICATIONS
Emissions: CE Mark: EN 55022, Class A; FCC Part 15 Class A
Immunity: IEC 61000-3-3, 61000-4-2/3/4/5/6/11

WARRANTY
Five Years (Including power supply)

ETHERNET SWITCHES

PART NO.	DESCRIPTION
SC30010	48 Port Gigabit Managed Switch
SC30020	24 Port Gigabit PoE+ Full Power Managed Switch
SC30030	24 Port Gigabit PoE+ Managed Switch
SC30040	24 Port Gigabit Managed Switch
SC30050	8 Port Gigabit PoE+ Managed Switch
SC30060	8 Port Gigabit Managed Switch

ACCESSORIES

Power Chassis (SC30020 only)

PART NO.	DESCRIPTION
AP50010	C-300 Power Chassis
AP50020	460W Extended Power Supply (for use in AP50010 Power Chassis)

Cables

AC30010	C-300 Series Console Cable

Replacement Mounting Kits

AM30010	C-300 24 and 48 Port Switches Rack Mount Kit
AM30020	SC30050 Rack Mount Kit
AM30030	SC30060 Rack Mount Kit

SFP MODULES

PART NO.	DESCRIPTION
065-79SXMG	1000SX Multi-Mode SFP Module 850nm up to 550m
065-79LXMG	1000LX Single-Mode SFP module 1310nm up to 10km
065-79ZXMG	1000ZX Single-Mode SFP Module 1550nm up to 80km
065-73FXMM5MG	100FX / OC-3 / STM-1 Multi-Mode SFP Module 1300nm up to 5km
065-73FXSM20MG	100FX / OC-3 / STM-1 Single-Mode SFP Module 1300nm up to 20km
065-791000TTXMG	10/100/1000TX SFP Module 100m span

For a complete list of SFP Modules visit www.signamax.com.

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