

# ServerSwitchIQ™ SS32L

## GPU-ready video recording appliance with automated cybersecurity

*GPU Ready • Up to 72TB Hot Plug Storage • Managed PoE Switch*

Razberi ServerSwitchIQ SS32L is a purpose-built video appliance that integrates a server, hot plug, enterprise-class storage and a managed PoE switch. An optional GPU supports video analytics and significantly increases video decoding performance as used for server-side motion detection and video rendering. Part of a complete suite of appliances that provide security leaders with unmatched video recording, scalability, reliability, and automated cybersecurity with remote management.

Built for security, engineered for performance, open architected and optimized to reduce the impact of megapixel cameras on the network.



### RAZBERI SERVERSWITCHIQ APPLIANCES

**Intelligent, high performance** video surveillance recording appliances that are more than an NVR

**Purpose-built** design to support megapixel camera resolutions

**All-in-one** server, managed PoE switch and storage

**Open platform**, certified with leading VMS and analytics partners.

### KEY FEATURES

- 32 PoE+ ports with up to 450W total output
- Intel 10th Generation Core Processor
- Nvidia GPU Ready
- 4 Hot-plug Enterprise HDDs with optional RAID
- Video storage up to 72TB
- Razberi CameraDefense™ automated camera hardening

### KEY BENEFITS

#### Edge Performance

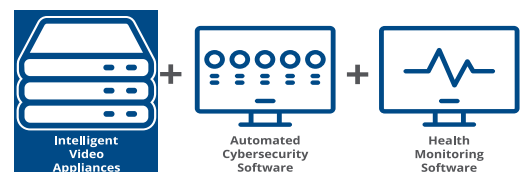
Optional embedded GPU dramatically improves video rendering, motion detection and video analytics at the network edge.

#### Remotely Monitor and Manage

Remotely manage with less staff and fewer costly truck rolls with Razberi Monitor. Monitor system health and cyber security. Manage software and Windows security updates.

#### Cybersecure

Automatically harden cameras with built-in CameraDefense. Protect the video server with ApplianceDefense™, AI-based antivirus and malware protection that does not compromise VMS performance.



## Hardware Specifications

Processor	Intel® Xeon™ W-1290TE 10 Core, 1.8 GHz 20 MB Cache (Passmark 18,409) Intel® Core™ i9-10900TE 10 Core, 1.8 GHz 20 MB Cache (Passmark 17,888) Intel® Core™ i7-10700TE 8 Core, 2.0 GHz 16 MB Cache (Passmark 16,022) Intel® Core™ i5-10500TE 6 Core, 2.3 GHz 12 MB Cache (Passmark 11,910) Intel® Core™ i3-10100TE 4 Core, 2.3 GHz 6 MB Cache (Passmark 7,977)
GPU Ready	Compatible with select Nvidia models.
Memory	16 GB standard (2 x 8GB DDR4 2666 DIMM) 32 GB optional (2 x 16GB DDR4 2666 DIMM)
TPM	2.0 FIPS140-2 Level 2
Operating System Drive	2 x 256GB M.2
Storage	4 x SATA III (6.0 Gbs) Hot swap bays 3.5 inch Enterprise class HDDs 2, 4, 6, 8, 10, 12, 14, 16, 18TB
RAID Controller	RAID 0/1/10 (standard, with Intel RST) RAID 0/1/5/6/10 (optional, hardware controller with 1 GB cache for power failure protection)
PoE	28 x 1GbE IEEE 802.3at, up to 30W per port 4 x 1GbE IEEE 802.3at 4-pair, up to 60W per port PoE Output: up to 450W (360W standard)
Graphics	Intel® UHD Graphics 630 with Quick Sync Video
Server Connectors	1 x RJ45 2.5 GbE (i225V) 1 x SFP+ 10 GbE (Intel X710, optional) 1 x RJ45 1GbE, AMT supported (i219LM) 2 x 3.1 USB 2 x HDMI 1.4, 4096x2160 @30Hz 1 x RJ45 2.5 GbE (internal)
Switch Connectors	32 x RJ45 1GbE PoE 3 x SFP+ 10GbE

## General Specifications

Operating System	Windows 10 IoT Enterprise 2019 LTSC Windows Server IoT 2019 LTSC (Optional)
Intelligent Features	Razberi Monitor and Manage Razberi CameraDefense automated camera hardening Razberi CameraHealth Razberi ApplianceDefense antivirus and malware protection
Switch Features	HTTPS Browser Interface Layer 2 Switching VLAN Management Spanning Tree Cable Test IPV6 IGMP (multicasting)
Operating Conditions	0 °C to 45 °C (32 °F to 113 °F) 10% to 90% RH Non-condensing
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Power	Input Voltage: 100-240Vac 50-60Hz Typical Current: 12.7A
Heat Load	897 BTU/hour
Certifications	EMC: FCC Part 15 Subpart B Class A, ICES-003 Issue 7, EN 55032:2015 +AC:2016-07, EN 55035:2017 + A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013 Safety: IEC/EN 62368-1:2014 + A11:2017 Other: RoHS
Dimensions	28.53 x 17.25 x 1.67 in, 1U Chassis (725 x 438 x 42 mm)
Weight (Max)	30.23 lbs (13.71 Kg)
Optional Accessories	Sliding Rack Rails
Warranty	3 Year Advance Replacement Warranty Optional 5 Year Advance Replacement Warranty

## Razberi ServerSwitchIQ SS32L Model-Specific Table

Part Number	Total PoE Output	Storage (TB)	RAID Controller	Server Uplink
SS32L-I5-16T4G	360 W	16 TB (4 x 4TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-24T6G	360 W	24 TB (4 x 6TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-32T8G	360 W	32 TB (4 x 8TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-40T10G	360 W	40 TB (4 x 10TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-48T12G	360 W	48 TB (4 x 12TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-56T14G	360 W	56 TB (4 x 14TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-64T16G	360 W	64 TB (4 x 16TB)	Intel RST	1 x 2.5 GbE (RJ45)
SS32L-I5-72T18G	360 W	72 TB (4 x 18TB)	Intel RST	1 x 2.5 GbE (RJ45)

Model Options: R= hardware RAID, X = Extended PoE Budget (450W); N = 10 GbE uplink from server

## Razberi ServerSwitchIQ SS32L Example Part Numbers with Options

Part Number	Total PoE Output	Storage (TB)	RAID Controller	Server Uplink
SS32L-I5-16T4RG	360 W	16 TB (4 x 4TB)	Hardware	1 x 2.5 GbE (RJ45)
SS32LX-I5-16T4RG	450 W	16 TB (4 x 4TB)	Hardware	1 x 2.5 GbE (RJ45)
SS32LX-I5-16T4RNG	450 W	16 TB (4 x 4TB)	Hardware	1 x 2.5 GbE (RJ45) 1 x 10 GbE (SFP+)

## Razberi ServerSwitchIQ SS32L GPU Options

Part Number	Description
SSIQ-GPU-P400	NVIDIA Quadro P400 for SSIQ24P-NG, 256 CUDA Cores, 2 GB GDDR5
SSIQ-GPU-P620	NVIDIA Quadro P620 for SSIQ24P-NG, 512 CUDA Cores, 2 GB GDDR5
SSIQ-GPU-P1000	NVIDIA Quadro P1000 for SSIQ24P-NG, 640 CUDA Cores, 4 GB GDDR5
SSIQ-GPU-P2200	NVIDIA Quadro P2200 for SSIQ24P-NG, 1280 CUDA Cores, 5 GB GDDR5