

# Rugged™

## Cybersecure video recording appliance for extreme conditions

Solid State storage • 300 Mbps • Up to 16TB

Razberi Rugged is a ruggedized, intelligent video recording appliance for outdoor security cameras and IoT devices designed to go wherever you need it and manageable from wherever you are. Hardened out-of-the-box, it's designed to withstand extreme temperature conditions from -40°C to 60°C (-40°F to 140°F) without requiring additional heating or air conditioning systems, saving thousands of dollars on specialized temperature conditioned enclosures.

The ruggedized appliance is fanless, allowing it to operate in dusty, dirty conditions that receive little to no maintenance. It includes Razberi CameraDefense for automated cybersecurity and Razberi Monitor for on-premise or cloud-based health monitoring and alerts.



### RAZBERI RUGGED™ 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

- Intel Core Processor
- 8 PoE+ ports with up to 200W total output
- Video storage up to 16TB using solid state drives
- Small rugged chassis, standard DIN rail mount
- Fanless design protects from dirt and dust
- Built using industrial temp components

### KEY BENEFITS

#### IT Friendly

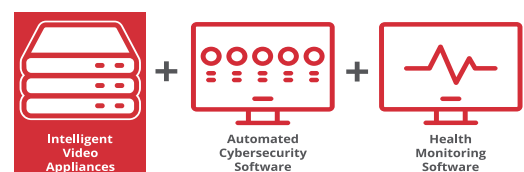
Store video at edge to reduce impact on IP networks without compromising quality.

#### Remotely Monitor and Manage

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

#### 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.



## Razberi Rugged™ Specifications

<b>Intelligent Features</b>	Razberi Monitor™ health monitoring	<b>Uplinks</b>	2 x 10/100/1000 Mbps Combo SFP 2 x 10/100/1000 Mbps RJ-45
<b>Processor</b>	Intel i5-4400E	<b>Video Out</b>	HDMI (3840 x 2160 Max.) VGA (2048 x 1536 Max.)
<b>Operating System</b>	Windows 10 Enterprise 2019 LTSC Windows Server 2016	<b>USB</b>	4 x USB 3.0
<b>Boot Drive</b>	256GB mSATA	<b>eSATA</b>	Yes
<b>Memory</b>	16 GB DDR3	<b>Input Voltage</b>	48-52VDC (Negative or Positive Ground)
<b>Graphics</b>	Intel HD Graphics P4600 w/Quick Sync Support	<b>Typical Current</b>	6.8 A
<b>Switch Control</b>	HTTPS Browser Interface Layer 2 Switching VLAN Management	<b>Switch Fabric</b>	4.4 Gbps, full mesh with zero packet loss
<b>PoE</b>	IEEE 802.3af, IEEE 802.3at (PoE+), up to 30W per port	<b>HDDs</b>	2 x 2.5 inch Datacenter SSDs
<b>RAID</b>	RAID 0/1/10	<b>RAID Controller</b>	Intel Rapid Storage Technology
<b>Operating Environment</b>	-40°C to 60°C (-40°F to 140°F) 10% to 90% RH Non-condensing	<b>Certifications</b>	FCC, RoHS, FCC Part15 Class A, CISPR22, CISPR32, EN 55022: Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-4, EN 61000-6-2, EN 55032, EN 55024, EN 60950-1, VCCI V-2 & V-3

## Razberi Rugged™ Model-Specific Table

Part Number	PoE Ports	Memory (DDR3)	Video Storage	Dimensions (L x W x H)	Operating Temperature
SSIQ8-R2-i5-2S	8	8 GB (standard) 16 GB (optional)	2 x 960GB MLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)
SSIQ8-R2-i5-4S	8	8 GB (standard) 16 GB (optional)	2 x 1920GB MLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)
SSIQ8-R2-i5-1SE	8	8 GB (standard) 16 GB (optional)	2 x 480GB MLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)
SSIQ8-R2-i5-2SE	8	8 GB (standard) 16 GB (optional)	2 x 960GB MLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)
SSIQ8-R2-i5-4SE	8	8 GB (standard) 16 GB (optional)	2 x 1920GB MLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)
SSIQ8-R2-i5-8SE	8	8 GB (standard) 16 GB (optional)	2 x 4TB TLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)
SSIQ8-R2-i5-16SE	8	8 GB (standard) 16 GB (optional)	4 x 4TB TLC Solid State Drive (2.5" SATA)	10.2 x 9.5 x 3.5 in; 260 X 241 x 90.5 mm	-40C to 60C (-40F to 140F)

## Razberi Rugged™ Accessories

Accessories Part Number	Description
PSU-R-240	240W DIN Rail Power Supply 52V (120W PoE) - Operating Temperature: -20°C to +70°C
PSU-R-480	480W DIN Rail Power Supply 52V (200W PoE) - Operating Temperature: -20°C to +70°C

## Razberi Rugged™ Performance Specifications

Recording Datarate (Mbps) <sup>1</sup>	Playback Datarate (Mbps) <sup>1</sup>	Number of Camera Recording Streams <sup>2</sup>	Number of Camera Playback Streams <sup>2</sup>
300	123	73	30

<sup>1</sup> The specific throughput that can be supported will be dependent on a number of criteria including camera types (resolution, frame rate, etc.), and the VMS software utilized.

<sup>2</sup> Assumes the use of a typical 2MP camera