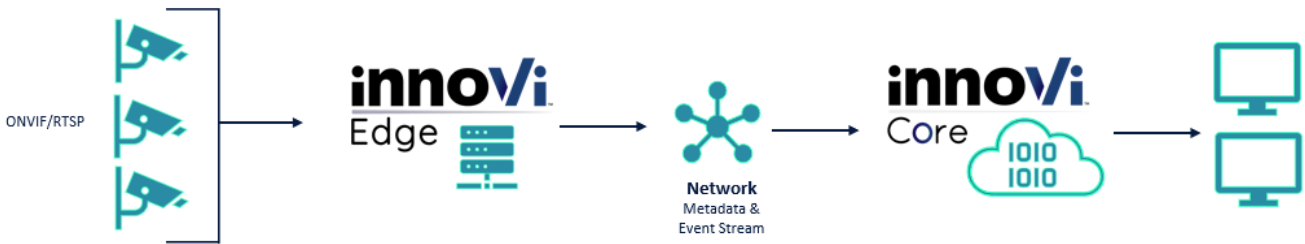


innovi Edge CI (Customer Installed) Data Sheet

innovi Edge CI enables the deployment of Agent Vi’s software on a customer’s chosen hardware to connect ONVIF / RTSP fixed IP cameras from the camera’s network to a centralized innovi Core. The chosen hardware must be aligned with the specifications listed in the “Hardware & Infrastructure Requirements” section below. Agent Vi innovi system can have one or multiple innovi Edges (innovi Edge CI, innovi Edge appliances, or a mix of both), that process the video stream, transforming it into Agent Vi’s proprietary metadata before sending it to an innovi Core, which will then perform all central management and advanced analysis. See Note 1 for innovi Virtual Edge.



Number of Supported Cameras

The number of cameras that a given Edge device can support depends on a variety of factors including: the innovi feature set (Remote Guarding or Enterprise), streaming profile, scene activity, and hardware specifications. The table below summarizes expected camera capacity for several popular streaming profiles, for a single processor. See Note 2.

Stream profile	Per Processor	
	Remote Guarding	Enterprise
H.264 @ 720P @ 8 FPS	96	80
H.264 @ 1080P @ 30 FPS	32	32
H.265 @ 720P @ 8 FPS	70	64
H.265 @ 1080P @ 30 FPS	26	26

Hardware & Infrastructure Requirements

Customer must provide a server (bare metal), with the following specification:

- Processor:
 - Intel Xeon Gold 6226R (number of supported cameras listed above is based on a benchmark performed with this processor)
 - Any other processor meeting the following requirements:
 - 6th to 10th generation Intel® Core™ processors and Intel® Xeon® processors
 - Intel® Xeon® processor E family (formerly code-named Sandy Bridge, Ivy Bridge, Haswell, and Broadwell)
 - 3rd generation Intel® Xeon® Scalable processor (formerly code-named Cooper Lake)
 - Intel® Xeon® Scalable processor (formerly Skylake and Cascade Lake)
- Number of processors: 1
- Memory: DDR4-2933 dual rank
- Memory configuration: 6 x 8GB DIMMs per processor (total 48GB). Reduced performance (half the channel count listed in the table above) can be achieved with 2 x 8GB DIMMs per processor. See Note 3
- Disk space: 128GB (Operating System & Application)
- Additional storage: for innovi Investigation / innovi Enterprise, 6GB is required per camera per day (for example: 80 cameras with 1 week of storage require 80*7*6 = 3,360GB). Reserve additional 20% free space for this storage. No additional storage is required for innovi Remote Guarding
- Operating system: Ubuntu 18.04, LTS 64-bit, server edition with no GUI installed

Hardware & Infrastructure Requirements (Continued)

Additional requirements:

- innoVi Edge CI can be deployed on VM's. However, the supported camera count per VM processor will be reduced by 20%
- The innoVi Edge CI server should not host other non-innoVi applications
- The specification and number of supported cameras is based on a specific processor model. Any alternative models need to be approved by Agent Vi. See Note 4
- Cameras connected to innoVi Edge CI must have static IP addresses (dynamic IP allocation may result in service discontinuity)
- See Note 5

Bandwidth Requirements from innoVi Edge to innoVi Core

Average Required bandwidth per channel:

- 5 kbps upload
- 0.5 kbps download

Additional upload bandwidth:

- Real-Time Event Detections: ~500 KB per event
- Live View in innoVi GUI: ~300 Kbps per camera

Maximum allowed latency from the innoVi Edge to the cloud:

- 2 seconds

Supported Camera Characteristics

- Resolution: up to 4K
- Frame Rate: 8 FPS is the minimal supported frame rate
- Video stream width should be divisible by 4
- The current max allowed aspect ratio is 4:1

Note 1: The innoVi Virtual Edge is installed on the same hardware as of the innoVi Edge CI, however, it is applicable only for Customer Hosted deployments. The server/s of the innoVi Virtual Edge are installed together with the innoVi Core at the same Kubernetes environment. Server N+1 Redundancy policy achieves high availability

Note 2: The table is based on the most common feature mixes tested using typical customer usage scenarios. Additional information is available on Agent Vi's website.

Note 3: Additional information related to the effects of memory bank configuration for Intel® Xeon® processors can be found here: https://downloads.dell.com/manuals/common/balancing_memory_xeon_2nd_gen.pdf

Note 4: The innoVi Edge software is optimized to use acceleration features that are specific to certain processor models. Running the software on processors without the correct acceleration features can significantly reduce the number of supported cameras.

Note 5: The hardware requirements are provided for budgetary and planning purposes. They are based on typical customer usages scenarios with hardware available at the time of testing. Given that hardware and software change frequently, Agent Vi recommends that customers request a formal review and hardware specification for their project before purchasing any hardware. Agent Vi reserves the right to change the product specification at its sole discretion at any time.

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