

# Hitachi Edge Gateway for Video brings intelligence to legacy cameras and enables intelligent systems to scale from single cameras to thousands of simultaneous streams.

## DATASHEET

## Hitachi Edge Gateway for Video

### Bring Intelligence to the Edge for Legacy Cameras

Hitachi Edge Gateway for Video is a small form factor, fanless compute platform used to integrate third-party video systems (see Figure 1). This intelligent edge device can be configured for local recording with direct camera connections, placed in a car or light truck, or used for Hitachi Visualization Suite (HVS) software video ingestion. The gateway supports up to four power over Ethernet (PoE) camera connections and up to eight indirect cameras for HVS connectivity. Redundant onboard recording and 4G connectivity enable quick and easy deployment in most environments.

### Flexible Platform Options

Hitachi Edge Gateway for Video model 300 is a flexible platform that can run different operating systems, including Microsoft Windows 10, Windows Server 2012 or Linux to support additional applications. Edge Gateway 300 also features a configurable bill of materials (BOM), allowing organizations to order the platform with the exact hardware options needed to support local recording, mobile or HVS use cases (see Tables 1 and 2).



Figure 1. The Hitachi Edge Gateway for Video

TABLE 1. EDGE GATEWAY FOR VIDEO SPECIFICATIONS

General Specifications	
<b>Hardware specifications</b> <ul style="list-style-type: none"> <li>Intel Core i7-6600U</li> <li>DDR3 16GB RAM</li> <li>4x USB 3.0, 2x USB 2.0</li> <li>4x RS-232, RS-422 or RS-485; DB9 Male Serial</li> <li>28GB to 2TB storage in up to two drives</li> </ul>	<b>Network specifications</b> <ul style="list-style-type: none"> <li>IEEE 802.11n 2.4GHz wireless</li> <li>6x LAN ports with 4 PoE ports</li> <li>3G, 4G and LTE support</li> <li>AT&amp;T, Verizon, T-Mobile and Sprint</li> </ul>
<b>Software specifications</b> <ul style="list-style-type: none"> <li>Microsoft Windows Server 2012</li> <li>Microsoft Windows 10</li> </ul>	<b>Additional specifications</b> <ul style="list-style-type: none"> <li>Up to 4 simultaneous live video transcoding with Hitachi Visualization Suite</li> <li>Up to 8 simultaneous 2MP streams</li> <li>GPS capabilities</li> <li>UL, FCC and PTCRB certified</li> </ul>

TABLE 2. VIDEO RETENTION CAPABILITIES

Video Retention Capabilities for Four Cameras (Continuous Recording)			
	1MP, 15 FPS	1.3MP, 15 FPS	2MP, 15 FPS
128GB	2 days	1.5 days	1 day
256GB	3 days	3 days	2 days
1TB	12 days	10 days	10 days
2TB	24 days	20 days	21 days

### Edge Gateway 300 Integration

For large-scale deployments, Edge Gateway 300 is used to ingest video from Hitachi Video Management Software (HVMS) or third-party video management systems (VMS) into Hitachi Visualization Suite. The connection between the camera network and HVS is typically through a wired network. Live viewing of cameras can be accessed through the HVS user interface from either inside or outside the firewall.

For smaller network video recorder deployments, cameras are connected directly to the Edge Gateway 300 platform, with HVS gateway software and video management software running on the gateway. Video is stored locally on the gateway VMS, with live viewing through the HVS connection. The connection can be cellular, enabling a vehicle-based gateway recorder, or fixed, through a traditional Ethernet or fiber network. Smaller

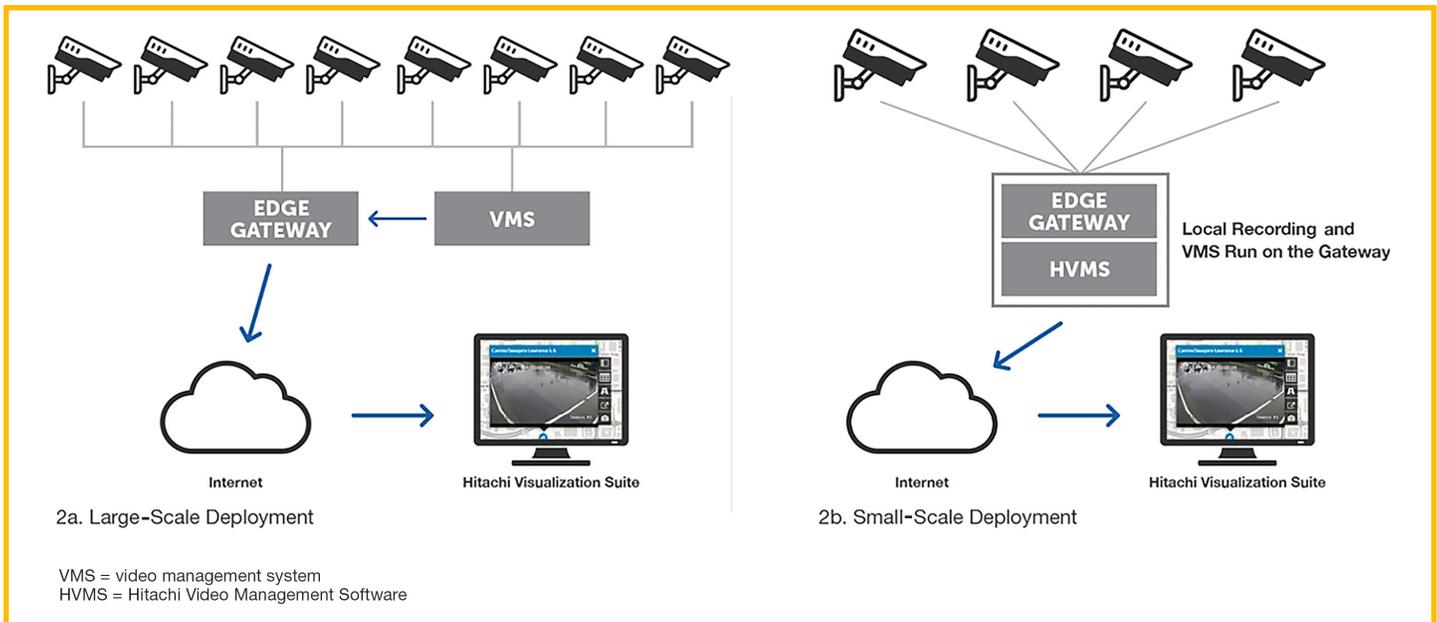


Figure 2. The Hitachi Visualization Cloud Architecture

cellular and fixed implementations offer easy deployment with no need to set up and maintain a local VMS. HVS allows for migration to eliminate on-premises infrastructure (see Figure 2).

### Streaming Capabilities

Edge Gateway 300 simultaneously manages multiple video streams. For each gateway, the number of streams depends on the available resources. Gateways can be configured to interact with HVMS or other available VMS, and the video stream load can be shared or divided among multiple gateways. Edge Gateway 300 also offers local and cloud streaming, high-quality video streams (up to 720p), configurable bitrates, RTMP and HLS live protocol support, and the ability to stream playback from source archive.

### Product Highlights

#### Cellular Connectivity for Live Mobile Viewing

With cellular connectivity, organizations can add IP cameras directly to Edge Gateway 300, where they archive a local video recording, and view the live video via the cellular connection to a mobile device.

#### Power Over Ethernet Capability

Edge Gateway 300 has an option for four PoE ports for direct camera connections, which eliminate the need for separate power supplies for cameras.

#### Scales To Support Large Video Networks

Edge Gateway 300 scales from a single, solid-state device to clusters of integrated devices in high-end performance computing environments, allowing deployments to scale from single cameras to hundreds of simultaneous streams.

#### Optional Drive Sizes

With 128GB storage that allows local recording, Edge Gateway 300 offers an optional 1TB solid-state drive (SSD) drive in either single or RAID-1 redundancy configurations.

### Hitachi Vantara at a Glance

Your data is the key to new revenue, better customer experiences and lower costs. With technology and expertise, Hitachi Vantara drives data to meaningful outcomes.

## Hitachi Vantara



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