

# VEGA-6321

## Video Edge Streamer



### Features

- Intel® 13th Gen RPL-P processor for real-time video processing
- 3x 2.5GbE for high-speed IP video transmission
- 1x PCIe Gen4 x8 FHHL for capture/transcoding card
- 2x M.2 E-key for Wi-Fi/LTE expansion
- Compact half-rack design for flexible deployment

### Introduction

VEGA-6321 is an entry-level video server tailored for broadcasting and video streaming applications. Powered by the Intel® 13th Gen Raptor Lake U/H platform, it features an integrated Intel® Iris® Xe GPU capable of 4K video encoding and decoding with low-latency transmission, making it ideal for real-time media workflows.

Designed for flexible connectivity, VEGA-6321 offers 3x 2.5GbE RJ45 ports for high-speed IP video transmission, along with dual M.2 Type E slots to support wireless modules such as Wi-Fi or LTE, enabling wireless video streaming in mobile or remote deployment scenarios.

The system supports a PCIe Gen4 x8 full-height, half-length expansion slot, allowing users to integrate video capture or transcoding accelerator cards based on specific application needs. Its compact half-rack form factor ensures easy installation across diverse deployment environments, from OB vans to edge streaming nodes.

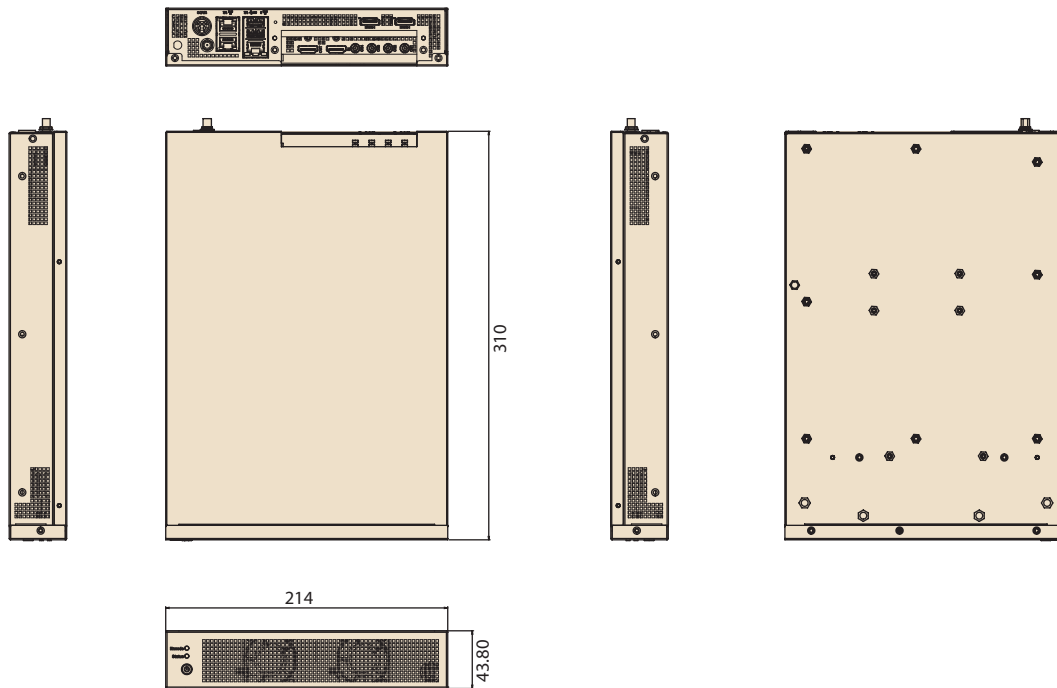
In typical usage scenarios, VEGA-6321 can ingest video streams via SDI capture cards or directly over IP through its 2.5GbE ports. It can decode and playback 4K video via its dual HDMI 2.0 outputs or perform transcoding via the onboard Iris® Xe GPU and re-stream IP video to downstream platforms.

### Specifications

System type	1U Half-Rack 4K Live Player/Streamer			
Processor System		270H	250H	220H
	Cores	14C	14C	12C
	Base Frequency	2.7	2.5	2.7
	Max Turbo Frequency	5.8	5.4	4.9
	Processor Graphics	Intel® Graphics	Intel® Graphics	Intel® Graphics
	EUs	96	96	96
	Video Decode Box	2	2	2
System Base Power	45W	45W	45W	
Memory	Memory channels	2 channels DDR5 Non-ECC Up to 5600 MHz SODIMM		
	Max. Capacity	96GB (2 x 48GB)		
Expansion	PCIe Expansion Slots	PCIe Gen4 x8		
	M.2	1x M.2 Type M (PCIe x4)		
		1x M.2 Type M (PCIe x2) 2x M.2 Type E		
Front I/O Interface	Power Button	1		
	LED Indicator	1x Alert LED, 1x Encode LED		
Rear I/O Interface	Ethernet	3 x 2.5GbE		
	Display	2 x HDMI 2.0		
	USB	2 x USB 3.0		
	Other	2 x Antenna hole		
Security	TPM	TPM2.0		
Hardware Codec	Hardware Decode	AV1, HEVC, VP9, SCC, AVC		
	Hardware Encode	HEVC, VP9, SCC, AVC		
Physical Characteristics	Height x Width x Depth	330 x 214 x 43.8mm		
Environment	Relative Humidity	Operating, 95% RH @40 °C, non-condensing Non-operating, 95% RH @60 °C, non-condensing		
	Storage Temperature	-20 to 70 °C		
	RoHS6 Compliant	RoHS 5/6		
	Operating Temperature	0 to 40 °C		

## Dimensions

Unit: mm



## Ordering Information

Part Number	Description
VEGA6321HA1B-ES	ES for VEGA-6321 Core9 270H LCM
VEGA6321HA2B-ES	ES for VEGA-6321 Core7 250H LCM
VEGA6321HA4B-ES	ES for VEGA-6321 Core5 220H LCM