

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.

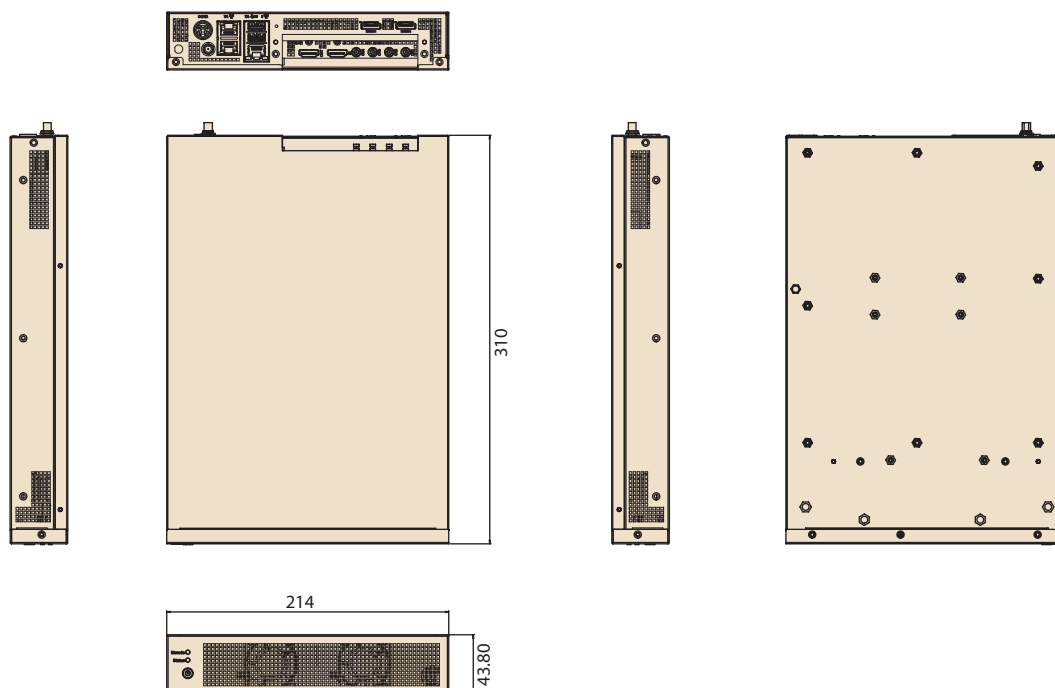
Specifications

System type	1U Half-Rack 4K Live Player/Streamer		
Processor System		270H	250H
		220H	
	Cores	14C	14C
	Base Frequency	2.7	2.5
	Max Turbo Frequency	5.8	5.4
	Processor Graphics	Intel® Graphics	Intel® Graphics
	EUs	96	96
	Video Decode Box	2	2
Memory	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)	
Front I/O Interface		2x M.2 Type E	
	Power Button	1	
Front I/O Interface	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	Width x Depth x Height	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	
Environment	Operating Temperature	0 to 40 °C	

* Please ensure you confirm specifications prior to making a purchase. This document serves as a reference and informational resource only. Please be aware that all product specifications are subject to change without prior notice.

Dimensions

Unit: mm



Ordering Information

Part Number	Description
VEGA-6321-HB1B	VEGA-6321 Core9 270H 8GB DRAM without LCM
VEGA-6321-HB2B	VEGA-6321 Core7 250H 8GB DRAM without LCM
VEGA-6321-HB4B	VEGA-6321 Core5 220H 8GB DRAM without LCM

Note: The LCM options are available upon request. Please contact us for details.

Optional Accessories

Part Number	Description
VEGA-6321-PS	VEGA-6321 Power distribution 800W CRPSx2 with ear sets

Note: The power cord and power cable are not included. Please select the appropriate power cord and power cable from the optional list below.
1200W CRPS is also available as an option, please contact us for details

Power Cable List

Part Number	Description
1700029865-11	Power Cord UL/ENEC 3P 10A 250V 100cm
1702002600	Power Cord UL 3P 10A 125V 183cm
1700032693-11	Power Cord BSI 3P 10A 250V 183cm
1700000237	Power Cord PSE 3P 12A 125V 183cm
1700025814-01	Power Cable P-DIN 4P(M)/P-DIN 4P(M) 100cm for connecting the power distribution unit to VEGA-6321

Note: The VEGA-6321-PS power distribution unit supports up to 12 power connections. The power cables can be ordered separately as needed.