ZE-VC
EMBEDDED COMPUTER

Small form-factor embedded computer with advanced video capture and exploitation capabilities.

8th Generation Intel® Core i7™ Processing

The ZE-VC integrates an 8th Generation Core i7™ processor for maximum compute processing capability in an embedded computing system. The Intel® i7™ processor delivers quad core performance with max turbo frequency of 4.20Ghz providing stunning compute capabilities in a MIL-SPEC system.

Integrated Video Capture Capabilities

The ZE-VC includes a video capture card capable of supporting ingestion or playback of four independent video channels. Each channel supports SDI formats up to 1080p60Hz for high-definition video capture or playback.

Rugged, Conductively Cooled Embedded Design

The ZE-VC is designed and tested to perform in rugged airborne environmental conditions through its certification of MIL-STD-810G qualification testing. An internal environmental control board continuously monitors system temperature and controls external fans that help cool conductively cooled electronics. All internal electronics are conformally coated for high-humidity environments.

Optimal thermal management design uses a combination of convection and conduction cooling to protect internal COTS components.
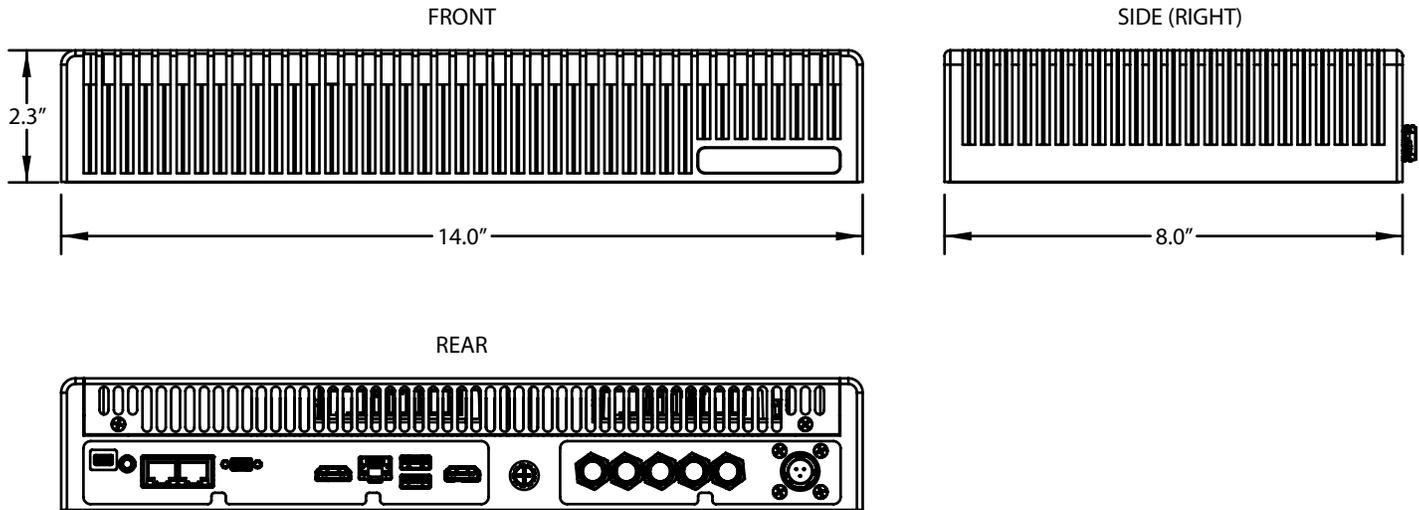
HIGHLIGHTS

- 8th Generation Intel® i7™ processor, up to 4.2Ghz
- 32G DDR4 2400Mhz SO-DIMM
- Three Gigabit LAN ports
- 2 x HDMI Video output
- 1 x 3G-SDI Video output
- 18-36V DC Power Input with MIL-DTL-38999
- Internal 1TB Storage module
- 4 Channel Video Capture or Playback
- Conductively cooled chassis
- Front LEDs for power and disk activity status
- MIL-STD-810G Qualified

FOR MORE INFO

Contact us at sales@zmicro.com
or call 858.831.7000.

ZE-VC

EMBEDDED COMPUTER
To see all of our computing solutions, visit zmicro.com/servers.

MECHANICAL OUTLINE

FRONT

SIDE (RIGHT)

2.3"

14.0"

8.0"

REAR

TECHNICAL SPECIFICATIONS

SIZE & WEIGHT	Dimensions	2.3" H x 14.0" W x 8.0" D
	Weight	7.3 lbs.
POWER	Power Supply	18-36 VDC, 114W Max Supply
	Power Consumption	93 W
OPTIONS	Motherboard	Intel® NUC Family NUC7i7DNB
	Processor	Intel® Core™ i7-8650U
	Memory	32GB DDR4 2400MHz SO-DIMM (2x 16GB DDR4)
	Storage	1TB Internal SATA storage
	Graphics	Blackmagic Decklink Duo 2, 4x 3G-SDI, PCIe Card
	PCI Add-On Slots	1 PCI Card add-on slot
ENVIRONMENTAL	Operating Temperature	MIL-STD-810G, Method 501.5: 0° to 50°C
	Non-Operating Temperature	MIL-STD-810G, Method 501.5: -40° to 70°C
	Operating Altitude	MIL-STD-810G, Method 500.5: Up to 20,000 ft.
	Storage Altitude	MIL-STD-810G, Method 500.5: Up to 40,000 ft.
	Humidity	DO-160F, Section 4, Category A, 50°C and 95% RH
	Shock	MIL-STD-810G, Method 516.6, 30gs, Saw-tooth, 11ms
	Vibration	MIL-STD-810G, Method 514.6 Category 1
	Explosive Atmosphere	MIL-STD-810G, Method 511.5, Procedure I
	Rapid Decompression	MIL-STD-810G, Method 500.5, Procedure III
	EMI/EMC	MIL-STD-461F, RE102, CE102, CS101, CS114, CS115, CS116, RS103
OTHER	Quality	IPC/ISO 9001:2015 and applicable sections of the MIL-HDBK-454