

# DATASHEET

## Vision CPU MV-CVU



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# Concept

The CVU-300 is a compact edge controller industrial computer equipped with Intel® Atom® processor, 64GB eMMC, 2 x LAN, 2 x USB and 1 x HDMI.

The integrated DIN rail controllers have a modular design for flexible configuration according to specific usage requirements.



## Efficient Image Processing

- Integrated with Intel® Atom®, 64GB eMMC, 2x LAN, 2x USB and 1x HDMI;
- Intel® Atom® quad-core x6413E processor;
- 4GB/8GB DDR4 internal memory;
- Compact, robust, fanless and cableless design with high stability.



## Developed for Industry

- Optimized I/O with 2 x GbE, 2 x USB, 1 x HDMI;
- Integrated full-size mPCIe port for flexible expansion;
- Integrated TPM2.0 for hardware-based security;
- Insulated grounding system;
- IEC 61010 certification for industrial applications.

# Specifications

## GENERAL SPECIFICATIONS

Dimensions	33.5 x 70 x 100 mm
Weight	0.5 kg
Form factor	Pocket size
Material	Aluminum
Mounting	DIN-rail panel mounting device
Supply Voltage	10 ~ 30VDC
Power Current	15.8W (nominal); 35W (peak)

## PHYSICAL SPECIFICATIONS

BIOS	AMI EFI X64
Surveillance timer	Programmable timer with 255 intervals (1 ~ 255 sec)
Processor	Intel® Atom® x6413E quad-core, 1.5 GHz
RAM	4 GB / 8GB DDR4 2666 MHz onboard
Graphics engine	Intel® UHD Graphics
Ethernet	2 x Realtek RTL8119i GbE
LED indicators	Power, Health (programmable), LAN (Active, Status)
Storage	64GB eMMC onboard (up to 256GB on request); Optional mSATA shared with mPCIe slot
Expansion	1 x Full-size mPCIe slot (SATA/PCIe/USB2.0 signal)
Hardware security	TPM2.0 (Library Rollback 1.38)

## I/O INTERFACES SPECIFICATIONS

LAN	2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Ethernet Rápida
USB	2 x USB 3.2 (Gen 1)
Output	1 x HDMI (1920 x 1080 @60Hz)
Power Connector	1 x 2-pin terminal block

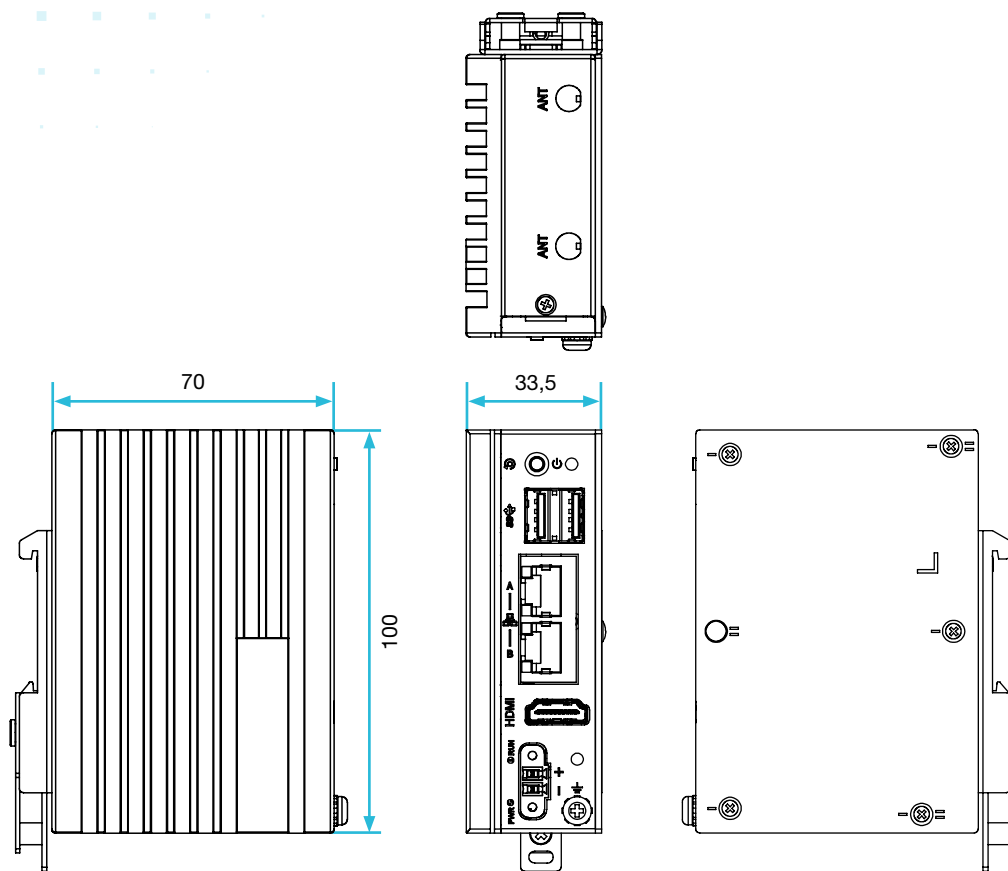
## ENVIRONMENT SPECIFICATIONS

Operating Temperature	-20 ~ 60°C @ 5 ~ 85% RH com 0.7 m/s
Storage temperature	-40 ~ 85°C
Relative humidity	10 ~ 95% RH @ 40°C, non-condensing
Shock protection	Operational, IEC 60068-2-27, 50G, half sine, 11 ms
Vibration resistance	Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1 hour/axis (mSATA)
Protection Index	IP30

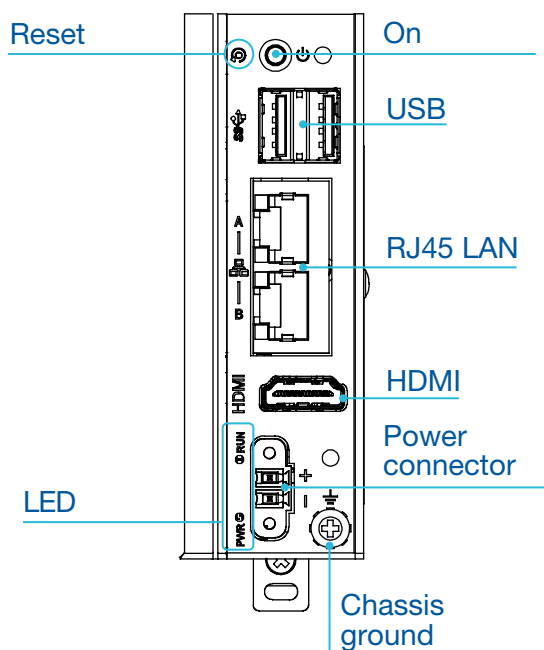
## INTERNATIONAL CERTIFICATIONS

CE, FCC, EMC, UL, CCC, BSMI

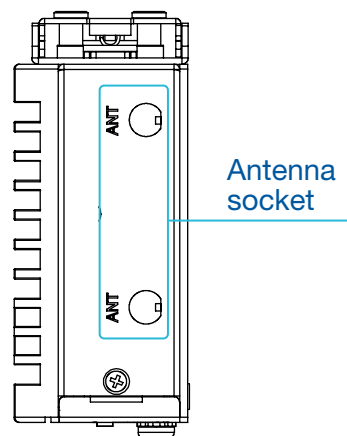
# Schematic Views



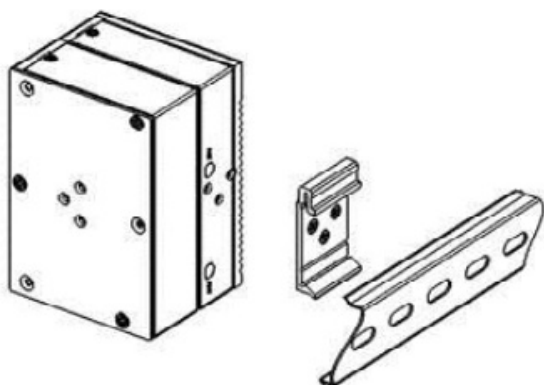
## FRONT I/O



## SUPERIOR I/O



# Installation Scenario



## Technical support

In case of need for technical support, the MVISIA team is always available to solve possible problems and difficulties.

 **MVISIA CONTACT**

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## Revision History

Document Version	Software version	Hardware Versions	Release Date
v1.0.0	MVISIA EDGE 2.1.1	MV-CVU-300 v1.0.0	October 2022



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Subject to change without notice.  
The information contained are reference values.

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