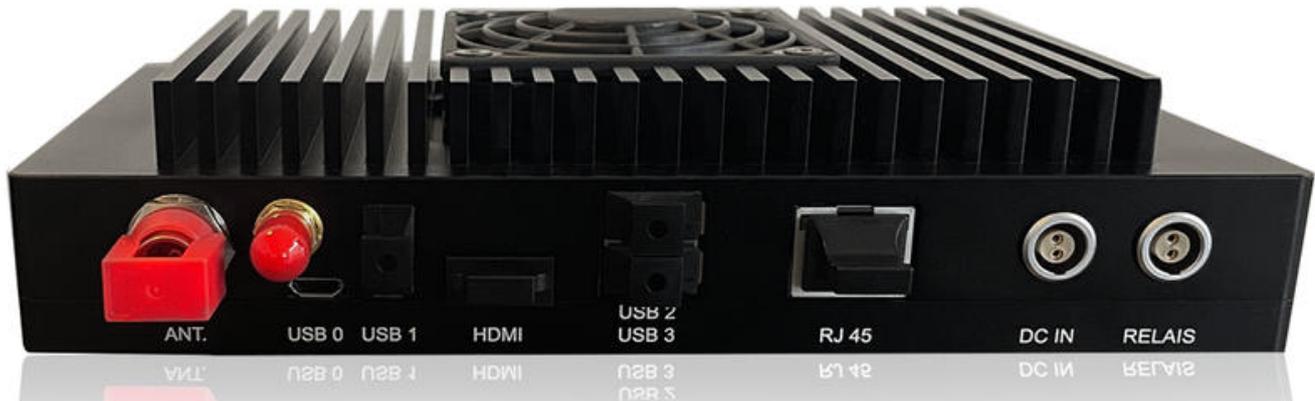


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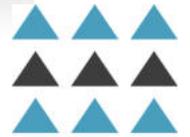
GUSTAV-i3

ALL IN ONE EDGE SOLUTION
DOCUMENT VERSION 1.0.2



SKU: RB_GI3ONX16

ABOUT GUSTAV-I3



SUPPORTS NVIDIA JETSON ORIN NX 8 & 16 GB

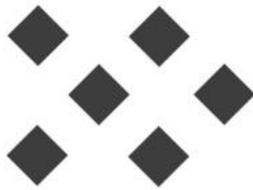
The GUSTAV-I3 edge computer is a compact and efficient all-in-one solution designed for modern edge computing and AI-based applications.

Developed to meet high industrial quality standards, the GUSTAV-I3 supports a variety of internal add-ons and interfaces, including Wi-Fi (2.4 GHz), optional GPS (u-blox), M.2 SSD storage, multiple USB ports, HDMI output, and a hardware security chip for secure device authentication.

Thanks to its versatile set of interfaces and connectivity options, the GUSTAV-I3 allows easy integration of sensors, cameras, and peripheral devices. Its compact form factor, combined with reliable performance and flexible connectivity, makes it ideal for applications such as robotics, industrial automation, smart infrastructure, and edge AI deployments.

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GUSTAV-I3

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SPEZIFIKATIONS

SUPPORTS NVIDIA JETSON ORIN NX 8 & 16 GB

ELEKTRICAL SPECIFICATIONS

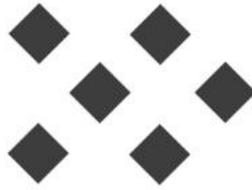
DC voltage input	12-48V
Power consumption	Max.30W

ENVIRONMENTAL SPECIFICATIONS:

Temperature range	-20°C bis 60°C
Humidity	Non-condensing

INTERFACES & CONNECTORS

ANT.1	FME female socket for Wi-Fi antenna
ANT.2	SMA socket for GPS antenna
USB 0	Micro-USB 2.0 OTG port for flashing and host mode
USB 1	Native USB 3.0 port
HDMI	HDMI 2.0 port for connecting a display
USB 2 und USB 3	2 × native USB 3.0 ports
RJ45	RJ45 port for intranet/network connection
DC IN	LEMO power connector
RELAIS	LEMO connector for automatic start/stop control



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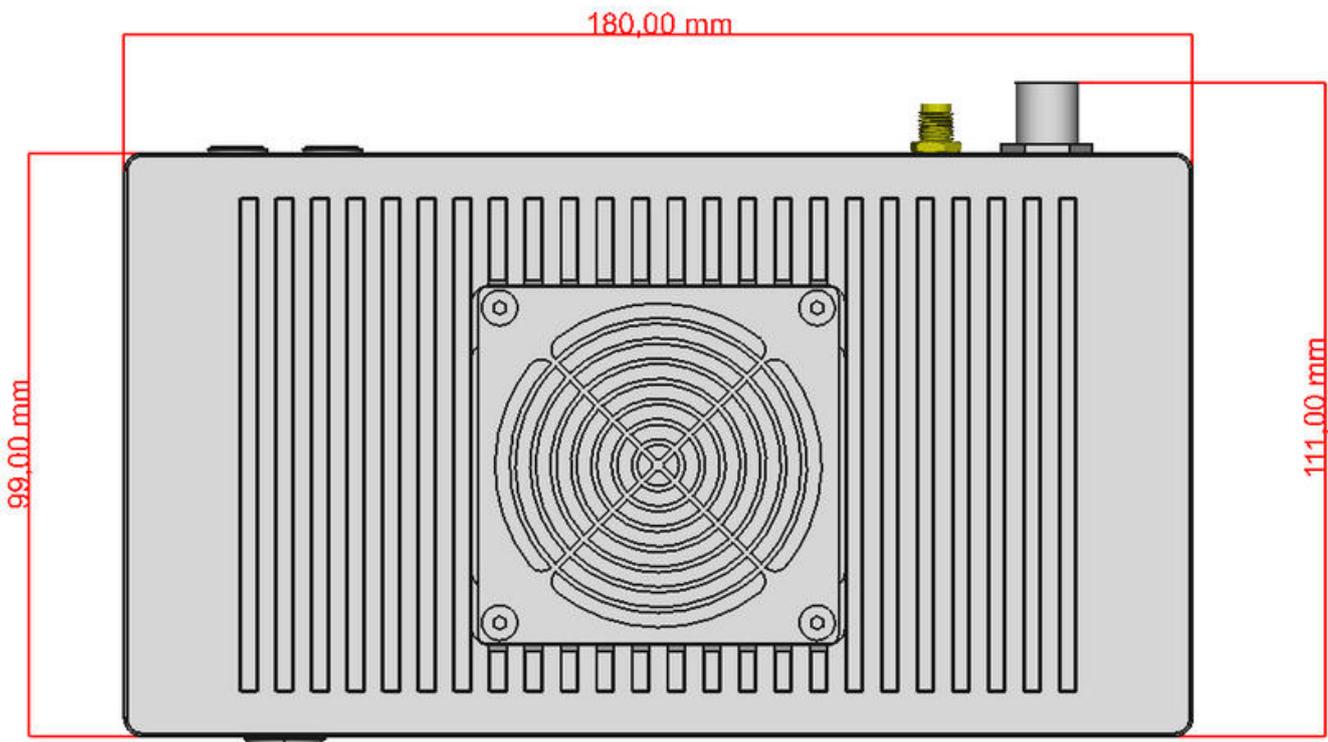
SPEZIFICATIONS

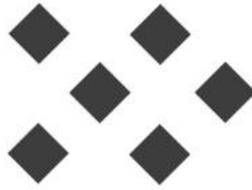
SUPPORTS NVIDIA JETSON ORIN NX 8 & 16 GB

TECHNICAL SPECIFICATIONS

Dimensions	180mm x 42mm x 99mm (without sockets)
Weight	Weight: 570g (without power supply unit)
Housing	Black anodized aluminum

TOPSIDE





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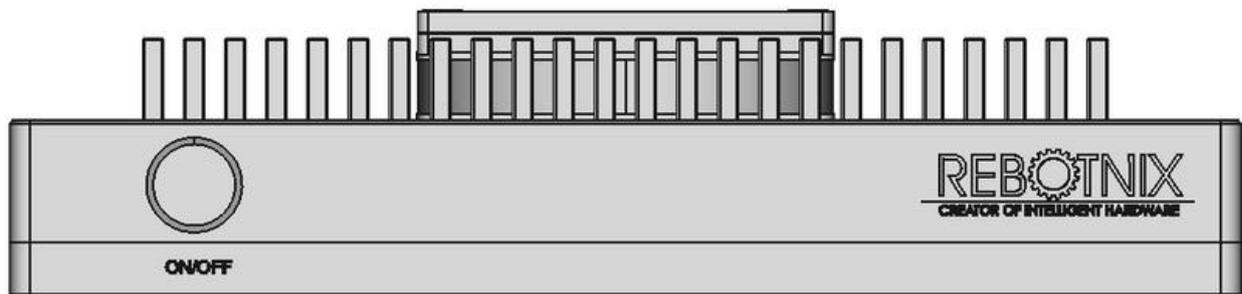
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SPEZIFICATIONS

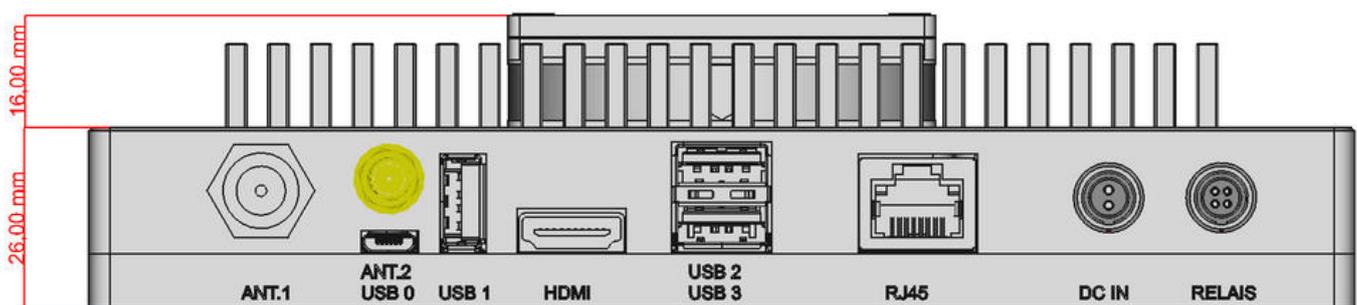
SUPPORTS NVIDIA JETSON ORIN NX 8 & 16 GB

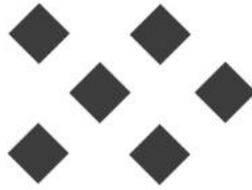
TECHNICAL SPECIFICATIONS

FRONTSIDE



BACKSIDE





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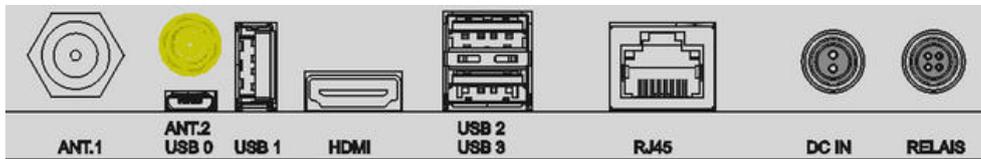
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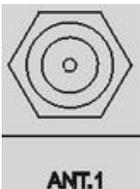
CONNECTIVITY

SUPPORTS NVIDIA JETSON ORIN NX 8 & 16 GB

BACKSIDE



ANT.1



FME/F Socket (WiFi Antenna)

An FME socket provides a connection for an external WiFi antenna, allowing the transmission and reception of wireless signals.

ANT.2 / USB0



SMA Socket (GPS-Antenna) / USB 2.0 Micro (OTG/flashing)

Used to connect an external GPS antenna (GPS mouse), this SMA socket enables the reception of GPS signals for position tracking.

The USB 2.0 Micro connector allows the connection of OTG devices and supports flashing of the system.

USB 1



USB 3.0 Type-A (Single)

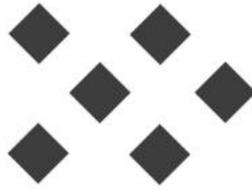
Designed for connecting external devices such as camera, keyboards, or USB sticks, this USB 3.0 Type-A socket enables high-speed data transfer with connected peripherals.

HDMI



HDMI 2.0 Socket

Serving as a link to external displays such as monitors or TVs, this HDMI connector transmits video signals and supports high-resolution video playback.



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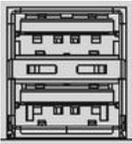
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CONNECTIVITY

SUPPORTS NVIDIA JETSON ORIN NX 8 & 16 GB

USB2 / 3

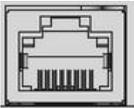


USB 2
USB 3

USB 3.0 Type-A (dual)

Two USB 3.0 Type-A sockets allow connection of external devices like hard drives, keyboards, or USB sticks, enabling high-speed data transfer between the device and connected peripherals.

RJ45

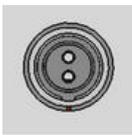


RJ45

RJ45 socket (Ethernet)

Providing a connection for an Ethernet cable, this RJ45 socket allows the device to connect to a local network or the Internet and supports data transfer speeds of up to 1 Gbps.

DC IN



DC IN

LEMO DC-IN (Power Supply)

The LEMO DC-IN socket is used to supply the device with direct current (DC) power, connecting it to the required power source to ensure proper operation.

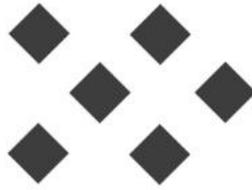
RELAIS



RELAIS

LEMO socket (Relay - Start/Stop automation)

The LEMO relay socket is used to connect the start/stop automation of the system, enabling control of the device's operational state.



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SECURE HARDWARE AUTHENTICATION



For the verifiability of AI applications as well as the European cybersecurity law and the upcoming AI ACT, proof of generated AI data of the liability issue is mandatory.

REBOTNIX edge systems include a hardware 256 bit based cryptochip on the mainboard. In combination with NVIDIA JETSON GPU and GUSTAVi as host, we can now create more secure AI applications and protect custom generated models.

The Microchip's is a full turnkey security device. It includes a 4.5Kb EEPROM divided into 16 slots. This array can be used for storage of keys, miscellaneous read/write, read-only, password or secret data, and consumption tracking. Access to the various sections of memory can be restricted in a variety of ways and then the configuration locked to prevent changes.