GUSTAV-MINI GMSLx2 WIFI

ALL IN ONE EDGE SOLUTION

DOCUMENT VERSION 1.0.2

SKU RB_GM2CHGMSLO16

ABOUT GUSTAV MINI

SUPPORTS NVIDIA JETSON NANO NX & ORIN NX 8 &16 GB

The GUSTAV Mini GMSL series was developed for use in extremely confined environments. Whether for controlling robots, machines, or vehicle cameras, the goal of the GUSTAV Mini GMSL was to save space while simultaneously meeting the highest standards.

Currently, the GMSL2 system supports the following cameras: ECON20, ECON21, Leopard IMX390, and Leopard OWL for specialized computer vision tasks that require secure cable routing as well as the connection of cameras with a high IP protection rating. In addition, standard interfaces such as Wi-Fi networking, I2C, CAN bus, RS232, GPIO, and UART for debugging are integrated, eliminating the need for an HDMI connection or an external monitor.

NVIDIA Preferred Partner

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SPEZIFICATIONS

SUPPORTS NVIDIA JETSON NANO NX & ORIN NX 8 &16 GB

ELEKTRICAL SPECIFICATIONS

DC voltage input	9-40V
Power consumption	Max.30W

ENVIRONMENTAL SPECIFICATIONS:

Temperature range	-20°C up to 70°C
Humidity	Non-condensing

INTERFACES & CONNECTORS

USB/UART	1xUSB 2.0, 1xUART Combi socket
DIO-1	Combined connection for digital I/O signals
M12-X	1Gb Ethernet connection
DIO-2	Combined connection for digital I/O signals
ON/OFF	On/off button
RES/REC	Reset/Recovery button
GMSL 1	Connection for a GMSL camera
GMSL 2	Connection for a GMSL camera
WIFI	SMA connector for 2.4/5 GHz Wi-Fi antenna

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SPAZIFICATIONS

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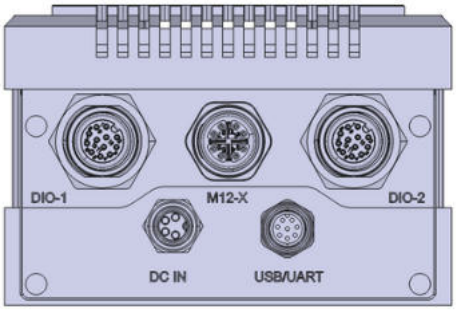
TECHNICAL SPECIFICATIONS

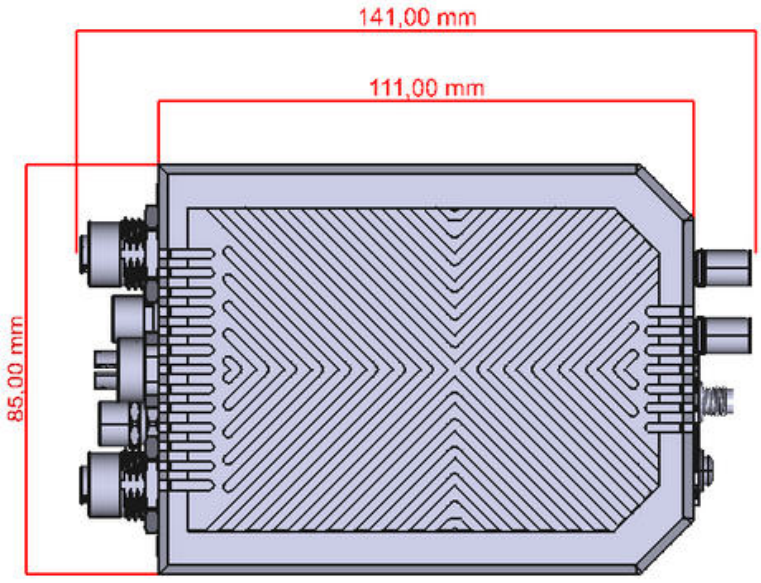
Dimensions	111mm x 85mm x 57mm (without Connectors)
Weight	Weight: 540g (without power supply unit)
Housing	Black anodized aluminum
Mass Storage	Up to 4TB SSD

FRONTSIDE

BACKSIDE



TOPSIDE



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CONNECTIVITY

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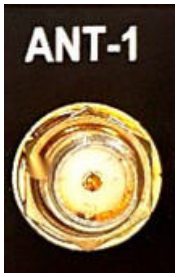
GUSTAV-MINI - FRONTSIDE

ON/OFF

ON / OFF - BUTTON

Pressing the push button turns the device on.
Pressing the button again turns the device off.

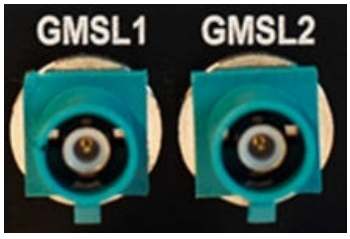
ANT-1



WIFI - SMA Socket

Connection for an external WLAN antenna 2.4G and 5G

GMSL1, GMSL2



GMSL & GMSL SOCKET

GMSL sockets for the connection of supported GMSL cameras

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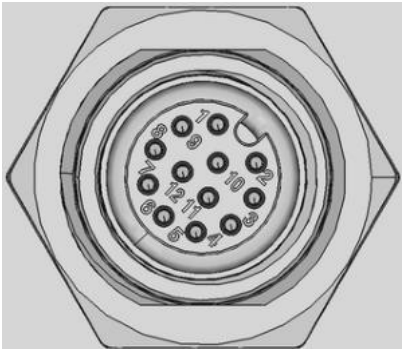
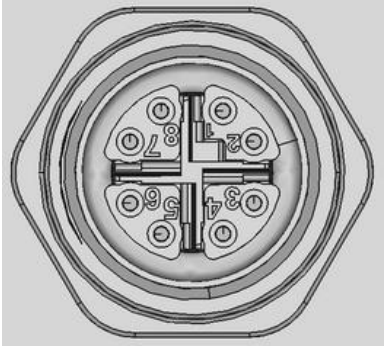
GUSTAV-MINI - BACKSIDE

DIO-1 PIN CONFIGURATION



PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V POWER OUT	7	GND
2	GND	8	I2C0 SCL
3	+3,3V_IO	9	I2C0 SDA
4	CAN_L	10	GND
5	CAN_H	11	UART RX
6	GND	12	UART TX

M12-X PIN CONFIGURATION



PIN	DESCRIPTION	PIN	DESCRIPTION
1	MDIO_N	5	MDI2_N
2	MDIO_P	6	MDI2_P
3	MDI1_N	7	MDI3_N
4	MDI1_P	8	MDI3_P

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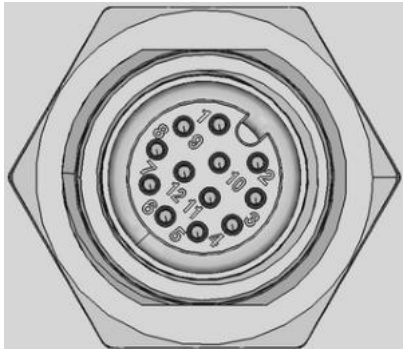
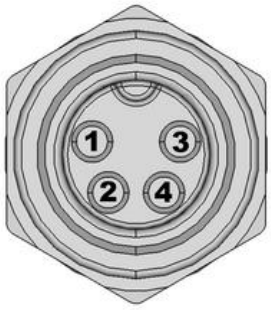
DIO-2 PIN CONFIGURATION



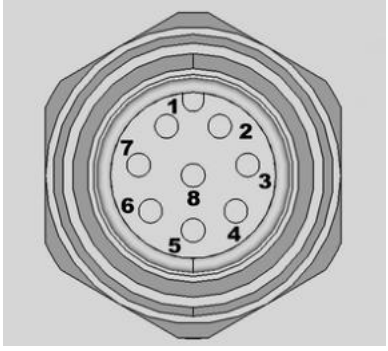
PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V POWER OUT	7	GND
2	GND	8	RS-232_0_RTS
3	GPIO10	9	RS-232_0_TX
4	GPIO13 (PWM)	10	RS-232_0_CTS
5	GPIO11	11	RS-232_0_RX
6	GPIO12 (PWM)	12	GND

DC-IN PIN CONFIGURATION



PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	3	VIN
2	GND	4	VIN

USB/UART PIN CONFIGURATION



PIN	DESCRIPTION	PIN	DESCRIPTION
1	+3,3V_IO	5	USB0 VBUS
2	UART2_RX	6	USB0_D_N
3	UART2_TX	7	USB0_D_P
4	GND	8	GND

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LIFECYCLE

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JANUARY 2030

During the product life cycle, changes to hardware components may occur, which may be accompanied by corresponding software changes (e.g. updates to memory components). REBOTNIX reserves the right to make changes to availability at any time resulting from the supply chains of suppliers from the chip industry, e.g. NVIDIA Corp.