Connect Tech Inc.

Embedded Computing Experts

USERS GUIDE



Anvil Embedded System

CTIM-00066 Revision 0.03 2026-09-03

NVIDIA Elite Partner

CONNECT TECH

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PREFACE

Disclaimer

The information contained within this user's guide, including but not limited to any product specification, is subject to change without notice.

Connect Tech assumes no liability for any damages incurred directly or indirectly from any technical or typographical errors or omissions contained herein or for discrepancies between the product and the user's guide.

Customer Support Overview

If you experience difficulties after reading the manual and/or using the product, contact the Connect Tech reseller from which you purchased the product. In most cases the reseller can help you with product installation and difficulties.

In the event that the reseller is unable to resolve your problem, our highly qualified support staff can assist you. Our support section is available 24 hours a day, 7 days a week on our website at: https://connecttech.com/support/resource-center/. See the contact information section below for more information on how to contact us directly. Our technical support is always free.

Contact Information

Contact Information	
Mail/Courier	Connect Tech Inc. Technical Support 489 Clair Rd. W. Guelph, Ontario Canada N1L 0H7
Contact Information	sales@connecttech.com connecttech.com Toll Free: 800-426-8979 (North America only) Telephone: +1-519-836-1291 Facsimile: 519-836-4878 (on-line 24 hours)
Support	Please go to the Connect Tech Resource Center for product manuals, installation guides, device drivers, BSPs and technical tips. Submit your technical support questions to our support engineers. Technical Support representatives are available Monday through Friday, from 8:30 a.m. to 5:00 p.m. Eastern Standard Time.

Limited Product Warranty

Connect Tech Inc. provides a 2-year Warranty for this product. Should this product, in Connect Tech Inc.'s opinion, fail to be in good working order during the warranty period, Connect Tech Inc. will, at its option, repair or replace this product at no charge, provided that the product has not been subjected to abuse, misuse, accident, disaster or non-Connect Tech Inc. authorized modification or repair.

You may obtain warranty service by delivering this product to an authorized Connect Tech Inc. business partner or to Connect Tech Inc. along with proof of purchase. Product returned to Connect Tech Inc. must be pre-authorized by Connect Tech Inc. with an RMA (Return Material Authorization) number marked on the outside of the package and sent prepaid, insured and packaged for safe shipment. Connect Tech Inc. will return this product by prepaid ground shipment service.

The Connect Tech Inc. Limited Warranty is only valid over the serviceable life of the product. This is defined as the period during which all components are available. Should the product prove to be irreparable, Connect Tech Inc. reserves the right to substitute an equivalent product if available or to retract the Warranty if no replacement is available.

The above warranty is the only warranty authorized by Connect Tech Inc. Under no circumstances will Connect Tech Inc. be liable in any way for any damages, including any lost profits, lost savings or other incidental or consequential damages arising out of the use of, or inability to use, such product.

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ESD Warning



Electronic components and circuits are sensitive to ElectroStatic Discharge (ESD). When handling any circuit board assemblies, including Connect Tech carrier assemblies, it is recommended that ESD safety precautions be observed. ESD safe best practices include, but are not limited to:

- Leaving circuit boards in their antistatic packaging until they are ready to be installed.
- Using a grounded wrist strap when handling circuit boards, at a minimum you should touch a grounded metal object to dissipate any static charge that may be present on you.
- Only handling circuit boards in ESD safe areas, which may include ESD floor and table mats, wrist strap stations and ESD safe lab coats.
- Avoiding handling circuit boards in carpeted areas.
- Try to handle the board by the edges, avoiding contact with components.

REVISION HISTORY

Revision	Date	Changes
0.00	2023-04-05	Preliminary Release
0.01	2023-10-20	Added Weight information, updated GPIO information
0.02	2026-05-28	Updated product dimensions and cable names
0.03	2026-09-03	Updated Limited Product Warranty for units purchased after August 1, 2026

INTRODUCTION

Built to deploy massive AI workloads at the Edge, the Anvil Embedded System is the AI supercomputer guaranteed to stay cool - even at Jetson AGX Orin™ MAX-N mode. The Anvil Embedded System can withstand even the most compute intensive AI applications with its power-efficient and feature rich design. Seamlessly deploy your next generation autonomous vehicle, smart city application, or intelligent vision solution with this state-of-the-art NVIDIA Jetson AGX Orin™.

Product Features and Specifications

Specifications	
Product Name	**Anvil Embedded System**
Module Compatibility	NVIDIA® Jetson AGX Orin™
Mechanical Dimensions	Active: 206 mm x 163 mm x 94 mm (8.1” x 6.4” x 3.7”) Passive: 177 mm x 163 mm x 92 mm (7.0” x 6.4” x 3.6”)
USB	1x USB 3.2 (Connector: Type-C) 1x USB 3.0 w/ OTG (Connector: Type-C) 1x USB 3.0 + 2.0 Port to M.2 B-Key 1x USB 2.0 to M.2 E-Key
GMSL Cameras (with JCB add-on)	8x GMSL 1/2 Camera Inputs (Connector: 2x Quad Micro COAX) Deserializers
Networking	2x 10G BASE-T 2x 1000BASE-T
Storage	2x NVMe (M.2 2280 M-KEY) 1x uSD Card Slot
Wireless Expansion	1x WiFi Module (M.2 2230 E-KEY) 1x LTE Module (M.2 3042 B-KEY) w/ SIM Card (3FF)
Video Output	1x DisplayPort++ (HDMI supported with compatible adapter)
Misc. I/O	2x levels UART1 and UART2 @ 3.3V 2x RS-232/485 UARTs 2x I2C Channel @ 3.3V IO 2x SPI Channel @ 3.3V IO 4x 3.3V GPI Inputs 6x 3.3V GPO Outputs (2x PWM Capable) 1x 3.3V Power Pin at 1A
CAN	2x Non-Isolated CAN 2.0b
RTC Battery	Included (CBG136)
Buttons	Power, Reset and Force Recovery buttons
Power Input	+10V to +36V DC Power Input (Mini-Fit Jr. 4-Pin Locking)
Operating Temperature	-25 C to +60 C (with 100% fan PWM or 8 m/s airflow)
Weight	Active: 2298g

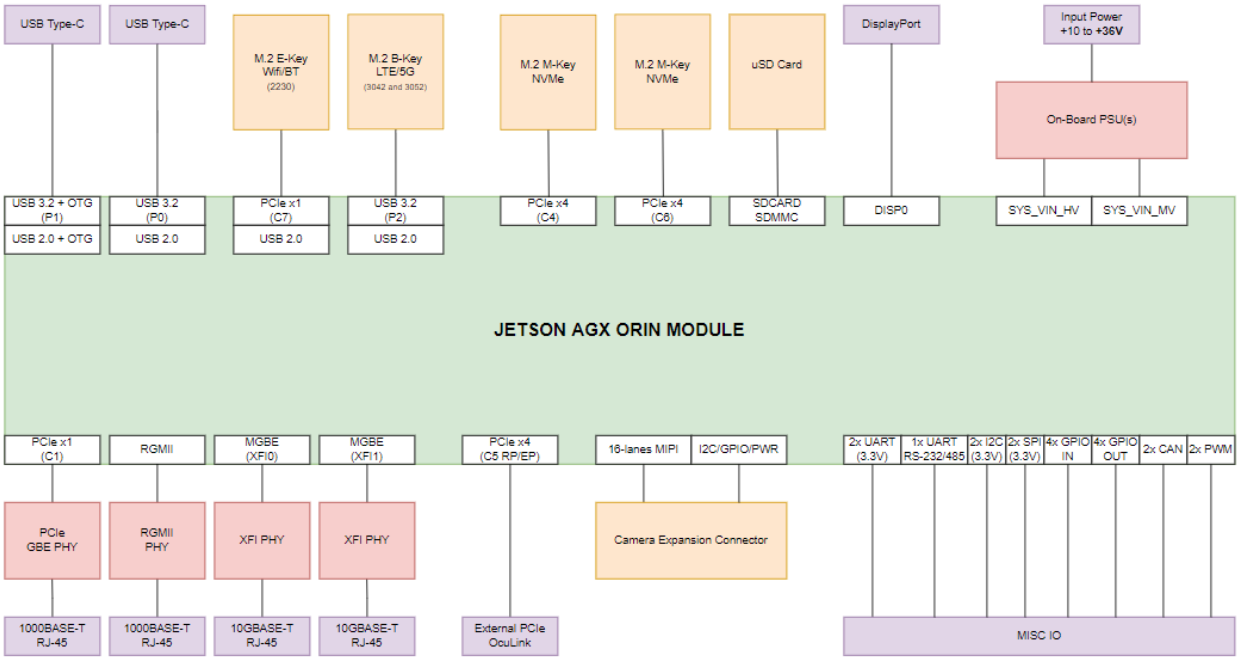
	Passive: 1949g *Note that weight will vary depending on the configuration chosen (NVMe SSDs for storage, WiFi/BT, LTE modems and JCB options)
Warranty and Support	2 Year

Part Numbers / Ordering Information

Part Number	
Part Number	***Description***
ESG620-xyz*	Anvil Actively Cooled version with embedded fans
ESG621-xyz*	Anvil Passively Cooled version that requires user supplied external airflow
	*Note that various configurations exist to fill out the features of the system. For example: Adding NVMe SSDs for storage, and/or WiFi/BT and/or LTE modems. Also different JCB combinations to externalize the camera interfaces can be used, like the JCB002 or JCB006. Contact sales@connecttech.com to configure your system.
Included Accessories	
CTIA-00477	Two (2) Mounting brackets are included for multiple mounting options. Each unit includes rubber feet pre-installed on the bottom, but can be swapped out with the included mounting brackets.
MMASM003M006FLP01BX	Four (4) Black Flat Head M3 6mm screws to fasten the brackets to the housing.
CBG630	12” Misc I/O Breakout to flying leads
CBG631	12” CAN Bus Breakout to flying leads
CBG632	12” 6-pin to 6-pin power connection cable
Optional Accessories	
MSG103	PSU 6pin 12V 250W (CTI sourced power brick)
MSG093	WiFi/BT Antenna
MSG094	LTE Antenna
CBG341	Quad FAKRA GMSL1/2 Cable

PRODUCT OVERVIEW

Block Diagram



Connector Summary & Locations

FRONT VIEW (Active Cooling)



REAR VIEW (Active Cooling)



FRONT VIEW (Passive Cooling)



REAR VIEW (Passive Cooling)



External Connector Summary

Location	External Connector	Description
Back	PWR IN	+10V to +36V Mini-Fit Jr. 6-Pin DC Power Input Connector
Front	DisplayPort	DisplayPort ++ connector
Front	USB 3.2 + OTG	USB 3.2 Type-C Connector (Right most USB)
Front	USB 3.2	USB 3.2 Type-C Connector (Left most USB)
Front	1GbE_1, 1GbE_2	Dual RJ-45 Gigabit Ethernet Connector
Front	10GbE_1, 10GbE_2	Dual RJ-45 10Gigabit Ethernet Connector
Back	Debug USB (serial)	Micro USB for connection to debug serial console
Back	uSD CARD	Micro SD Card Connector
Back	EXPANSION I/O	40 Pin GPIO/MISC Connector
Front	GMSL 1, 2	GMSL 1/2 Quad Camera Connectors (JCB002 shown)
Back	CAN Bus A, B	6 Pin Non-Isolated CAN Connector
Back	OCuLink	External PCIe expansion connection
Back	P – PWR BUTTON R – RESET BUTTON F - FORCE RECOVERY	Power, Reset and Force Recovery Pushbuttons (small pinhole switches)
Front	ANT 1, 2	Antenna (LTE or cell Modem is defaulted to these locations)
Back	ANT 3, 4	Antenna (WiFi/BT is defaulted to these locations).

DETAILED FEATURE DESCRIPTION

Anvil Embedded System NVIDIA® Jetson AGX Orin™ Module Connector

The NVIDIA® Jetson AGX Orin™ processor and chipset are implemented on the Jetson AGX Orin™ Module. This connects to the AGX Orin module to the Anvil Embedded System via Molex Mirror Mezz 699 pin connector.

Function	Description
Location	Within The Anvil Embedded System
Type	Module
Pinout	Refer to NVIDIA® Jetson AGX Orin™ Datasheet.
Features	Refer to NVIDIA® Jetson AGX Orin™ Datasheet.



Note: A Thermal Transfer Plate is incorporated on the NVIDIA® Jetson AGX Orin™ module that dissipates heat through the top of the Anvil Embedded System Chassis.

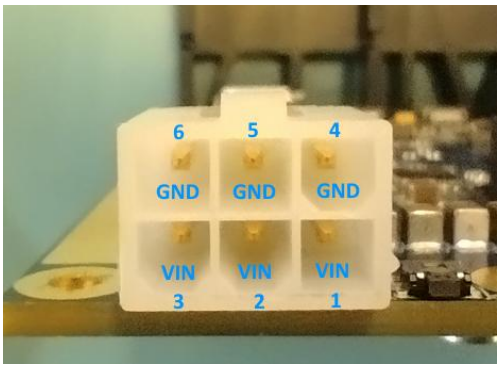
Anvil Embedded System Isolated CAN Connector

Power Connector

Power Input: 10-36V input range

Connectors

Function	Forge Power Supply Connector
Location	P6
Type	Mini Fit Jr 2x3 Right Angled
Connector	Part Number: 39301060 Manufacturer: Molex
Mating Connector	CBG632 Receptacle Housing 5557 series Cable Assembly 45135 series
Pinout	Pin 1-3 are Power Input (VIN) 10-36V Pin 4-6 are Ground (GND)

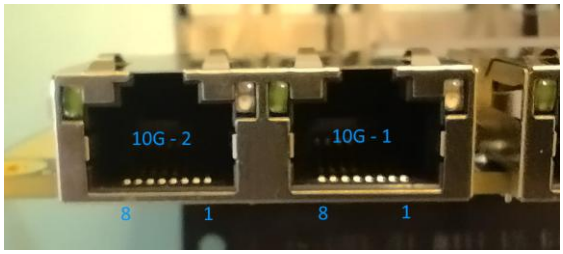


10G Ethernet (2 Ports)

Two ports of RJ45 10G BASE-T Ethernet for high-speed networking.

Connectors

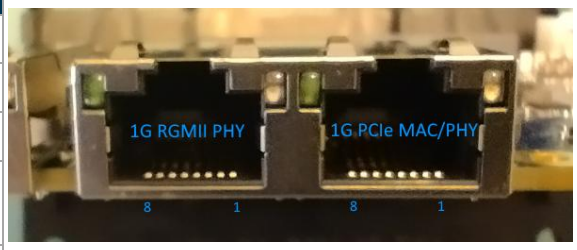
Function	10 GBE Network Connectivity
Location	P10
Type	2x 8 pin RJ45 with integrated Magnetics
Connector	Manufacturer: Pulse
Mating Cable	Standard RJ45 CAT 6a
Pinout	As per the IEEE-802.3 specification
Notes	Both Channels use AQR113 PHYs Originating from MGBE0 and MGBE1 on the AGX Orin™ Module.



1G Ethernet (2 Ports)

Two ports of RJ45 1G BASE-T Ethernet for networking.

Connectors

Function	GBE Network Connectivity	
Location	P9	
Type	2x 8 pin RJ45 with integrated Magnetics	
Connector	Manufacturer: Pulse	
Mating Cable	Standard RJ45 CAT 5e or better	
Pinout	As per the IEEE-802.3 specification	
Notes	1G RGMII PHY Sources from the AGX ORIN Module. The 1G PCIe MAC/PHY sources from a PCIe device (Intel i210 or equivalent).	

USB 3.2 (2 Ports)

Two ports of USB 3.2 Type-C interfaces with 3A at 5V output capable per port.

Connectors

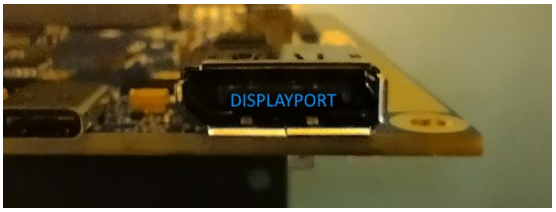
Function	USB 3.2 General Purpose Ports	
Location	P11A, P11B	
Type	2x 26 pin Type C USB Connectors	
Connector	Part Number: 632723300011 Manufacturer: Wurth	
Mating Cable	Standard USB 3.0 Type C or better	
Pinout	As per the USB 3.2 specification	
Notes	One USB port is only a DFP (Downward facing port), the second is capable of both DFP and UFP (Upward Facing Port). The OTG port (P11A) is used for module Flashing access in recovery mode. Each USB port is capable of delivering up to 3A at 5V at USB 3.2 Gen 2 (10Gbps) speeds for both ports. Note that alternate modes for power or video are NOT supported on these USB interfaces. USB devices only.	

DISPLAYPORT Video Output

The Anvil Embedded System supports one DISPLAYPORT capable of 4k output resolution.

Connectors

Function	Display Output
Location	P5
Type	Full size DisplayPort connector
Connector	Part Number: 472720001 Manufacturer: Molex
Mating Cable	Standard DISPLAYPORT or DISPLAYPORT to HDMI adapter cable
Pinout	As per DISPLAYPORT
Notes	The DISPLAYPORT output is capable of supporting HDMI using a DP++ compliant cable adapter.

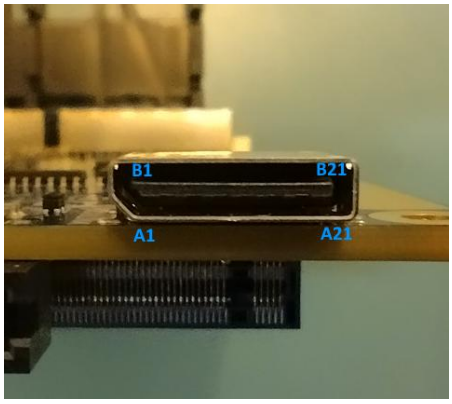


OCuLink (SFF-8611) External PCIe x4 Connector

The Anvil Embedded System supports one OCuLink connector for use as an external general purpose x4 PCIe Gen 4 connection to access external peripherals.

Connectors

Function	External OCuLink PCIe Expansion
Location	J2
Type	OCuLink 42pin Receptacle
Connector	Part Number: 171982-0142 Manufacturer: Molex
Mating Cable	SFF-8611 mating cable end to various other end connector types
Pinout	As per PCIe OCuLink Specification v1.1. Supports up to x4 PCIe Gen 4



Notes

OCuLink (Root Port Mode) is used for expanding the PCIe bus allow for connection to external device peripherals.

OCuLink device examples:
SFF-8611 to U.2 high speed PCIe/high density SSD Drive adapter cable and SSD drive





SFF-8611 to SFF-8643 adapter cable with a PCIe edge card extention.

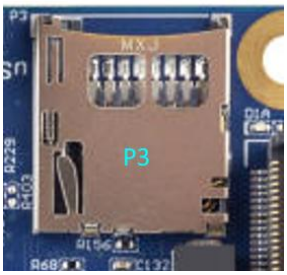




Micro SD Card Slot

The Anvil Embedded System has one micro SD card slot.

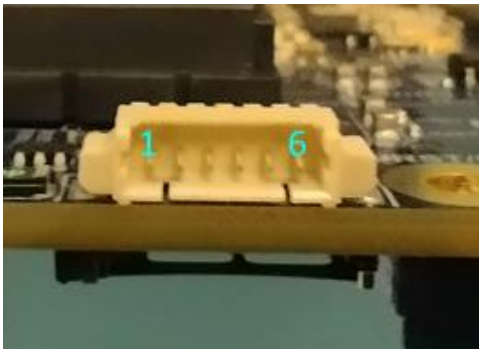
Connectors

Function	Memory expansion	
Location	P3	
Type	Push-Push Micro SD cards holder	
Connector	502570-0893 from Molex	
Pinout	See Micro SD specification	
Notes	Supported speed grades DS, HS, SDR12, SDR25, SDR50, SDR104, DDR50.	

External Power/Reset/Force Recovery Connector

The Anvil Embedded System has a connector to provide external connections for PWR, RESET and FORCE RECOVERY.

Connectors

Function	External Power/Reset control	
Location	P7	
Type	6 pin Pico blade	
Connector	53261-0671 from Molex	
Pinout		
Notes	Note all signals here are active low and have internal 5.0V 10kohm pullups. Connect to	

Pin #	Description
1	Force Recovery Button
2	GND
3	Reset Button
4	GND
5	Power Button
6	GND

	GND to activate.

GPIO/SPI/I2C/UARTs

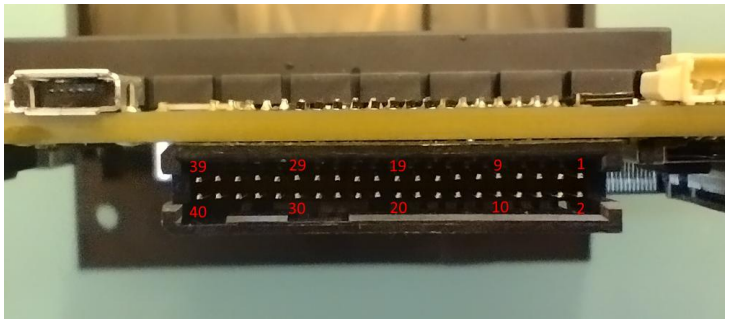
Several General purpose I/O features are available on this interface including: 2x SPI, 2xI2C, 2xUART, 4xGPOut, 4xGPIn, 2xPWM_Out, 2xRS232/485.

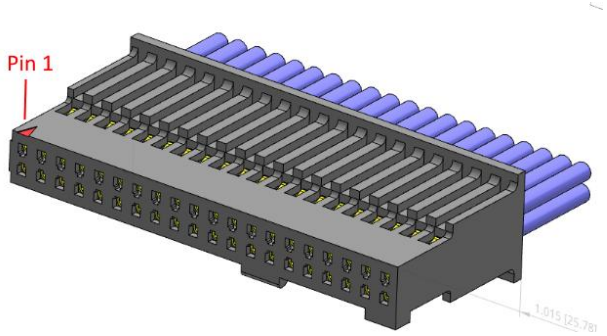
Connectors

Function	General Purpose I/O
Location	P17
Type	40 pin General Purpose 3.3V I/O Connector (note: All I/O are 3.3V levels except the RS232/RS485 interfaces)
Connector	Samtec TFML-020 series
Mating Cable	CBG630 SFSD-20-28-G-12.00SL (SL or DL = Friction Lock required for locking fit)

Pinout

Pin #	Description	Description	Pin #
1	3V3 Power Output (1A)	GND	2
3	SPI1_CLK	SPI1_MOSI	4
5	SPI1_CS0#	SPI1_MISO	6
7	SPI2_CLK	SPI2_MOSI	8
9	SPI2_CS0#	SPI2_MISO	10
11	GND	GND	12
13	TTL_UART1_TX	TTL_UART2_TX	14
15	TTL_UART1_RX	TTL_UART2_RX	16
17	I2C1_CLK	I2C2_CLK	18
19	I2C1_SDA	I2C2_SDA	20





21	GP_Out_0	GP_In_0	22
23	GP_Out_1	GP_In_1	24
25	GP_Out_2	GP_In_2	26
27	GP_Out_3	GP_In_3	28
29	PWM_Out_0	PWM_Out_1	30
31	GND	GND	32
33	RS232A_TX/ RS485A_TXP	RS232A_RX/ RS485A_RXP	34
35	RS232A_RTS/ RS485A_TXN	RS232A_CTS/ RX485A_RXN	36
37	RS232B_TX/ RS485B_TXP	RS232B_RX/ RS485B_RXP	38
39	RS232B_RTS/ RS485B_TXN	RS232B_CTS/ RS485B_RXN	40

Notes:

All I/O are 3.3V unless otherwise specified.

GP_Out_*x* - are driven outputs and can sink or source 12mA

GP_In_*x* - VIH (Input High Voltage minimum) = 2V. No pullup or pulldown is pre-configured, user discretion to add externally if required for their application.

PWM_Out_x - are driven outputs and can sink or source 24mA

3V3 Power output can provide up to 1A of current.

SW Cross reference to GPIO controllers

Connector Name	Module ID	Controller ID (sysfs)
GP_IN_0	GPIO01	PG.03 (386)
GP_IN_1	GPIO04	PA.02 (350)
GP_IN_2	GPIO05	PA.01 (349)
GP_IN_3	GPIO08	PBB.01 (325)
GP_OUT_0	GPIO09	PBB.00 (324)
GP_OUT_1	GPIO11	PAC.05 (491)
GP_OUT_2	GPIO17	PP.04 (444)
GP_OUT_3	GPIO18	PQ.04 (452)

Connector Name	SW /dev ID	DTB ID (name)
PWM_OUT_0	pwm8	pwm@32f0000 (PR.00)
PWM_OUT_1	pwm5	pwm@32c0000 (PH.00)

SW Interface Cross reference

Connector Name	SW /dev ID	DTB ID
I2C1	i2c0	i2c@3160000
I2C2	i2c7	i2c@c250000
UART1	ttyTHS0	serial@3100000
UART2	ttyTHS4	serial@3140000
RS232A	ttyTHS1	serial@3110000
RS232B	ttyTHS3	serial@3130000
SPI1	spi0	spi@3210000
SPI2	spi1	spi@c260000

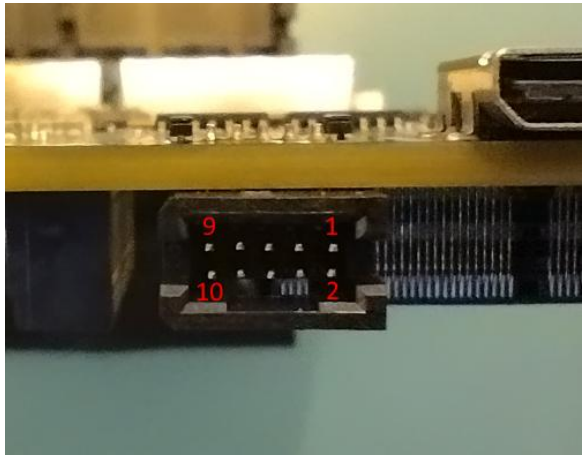
CAN BUS Interfaces

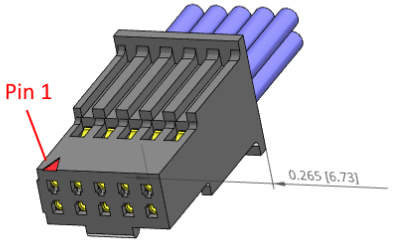
Two non-isolated CAN Bus interfaces are available on

Connectors

Function	CAN Bus Interface
Location	P18
Type	10 pin dual CAN Bus Connector
Connector	Samtec TFML-05 series
Mating Cable	CBG631 SFSD-05-28-G-12.00SL (SL or DL = Friction Lock required for locking fit)
Pinout	See table below
Notes	Connector pinout allows for it to be rotated without causing damage.

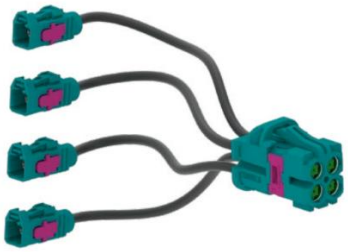
Pin #	Description	Description	Pin #
1	CAN0_H	CAN0_L	2
3	GND	GND	4
5	NC	NC	6
7	GND	GND	8
9	CAN1_L	CAN1_H	10





GMSL 1/2 Connector (with an included JCB002)

The Anvil Embedded System allows GMSL 1 or GMSL 2 through the Quad MATE-AX connectors. The GMSL to MIPI Deserializers are embedded on the carrier board which use 4-Lane MIPI video per 2 cameras. Additionally, the Anvil Embedded System outputs +12V Power Over COAX (POC).

Function	Description	
Location	Front	
Type	GMSL 1/2 Quad Camera Connectors	
Mating Cable	Quad Fakra GMSL Cable 4 Position MATE-AX to 4 x FAKRA Z-code 50Ω RG174 Cable CTI P/N: CBG341	

Antenna Connectors

The Anvil Embedded System chassis implements 4x SMA Antenna Connectors (Optional) for the internal M.2 2230 E-Key (WiFi/Bluetooth) and M.2 3042 B-Key (Cellular).

Function	Description	
Location	Front and Rear	**Front**  **Back** 
Type	SMA RP-FEMALE Connector	
Mating Connector	Antenna Connector SMA RP-MALE	

POWER CONSUMPTION & THERMALS

The Anvil Embedded System has an Operating Temperature Range of -25°C to +60°C.

It is important to note that the NVIDIA® Jetson AGX Orin™ module has its own properties separate to that of the peripherals. Customer responsibility requires proper implementation of a thermal solution that maintains the Anvil Embedded System Passive cooling temperatures below the system maximums.

NVIDIA® Jetson AGX Orin™

Parameter	Value	Units
Maximum Jetson AGX Orin™ SoC Operating Temperature Top of Case	80	°C
Jetson AGX Orin™SoC Internal Maximum Temperature	99	°C

Parameter	Value	Units	Value	Units	Temperature
The Anvil Embedded System Theoretical Maximum	12	V	170	W (max)	25°C (typ.)
The Anvil Embedded System, NVIDIA® Jetson AGX Orin™ Module MAXN mode, 100% CPU, 100% GPU, 100% 1x NVMe(s), 1x WiFi, 10G Eth loopback, 1G Eth loopback and FANs full speed (8 m/s intake) *Note – 17A transient currents observed with the system at full benchmark performance. Proper input power supply margin is required.	12	V	108	W (RMS)	50°C (typ.)

System Thermal Test Results

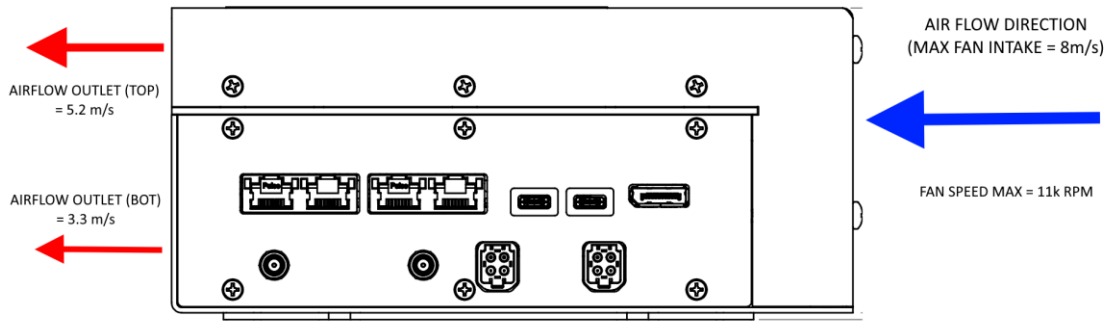
The active cooling at full performance can meet or exceed the thermal margin requirements of the Jetson AGX Orin™ when a full system benchmark is being performed at high ambient temperatures. Airflow characteristics shown are all at maximum flow to create a linear control mode to measure against. Dynamic fan control is available to use once a user's system use case has been characterized to provide a more refined control loop.

Test setup:

- Jetson 32GB 8 core production module.
- MAXN performance mode
- jetson_clocks –fan (all CPU/Mem/GPU/Fan clocks set to max)
- CPU stress (6 of 8 cores 100% utilization)
- gpu_burn with tensor cores (100% utilization using 1 CPU core to control)
- NVMe 1TB Samsung 970 running Disks Benchmark (100% utilization - using 1 CPU core to control)
- 10G Loopback fully linked
- 1G Loopback fully linked
- USB keyboard/mouse – no load
- DisplayPort 4k display

Internal System Reading locations	Value	Units
Ambient intake air temp (fans max speed – 8 m/s)	52	°C
Jetson AGX Orin™ internal die temp reading (power GUI – max is 99C)	69.2	°C
Jetson AGX Orin™ reading top of case (max is 80C)	61.4	°C

Active Cooling Maximum Airflow operation.



nvfancontrol Fan Profile Setup

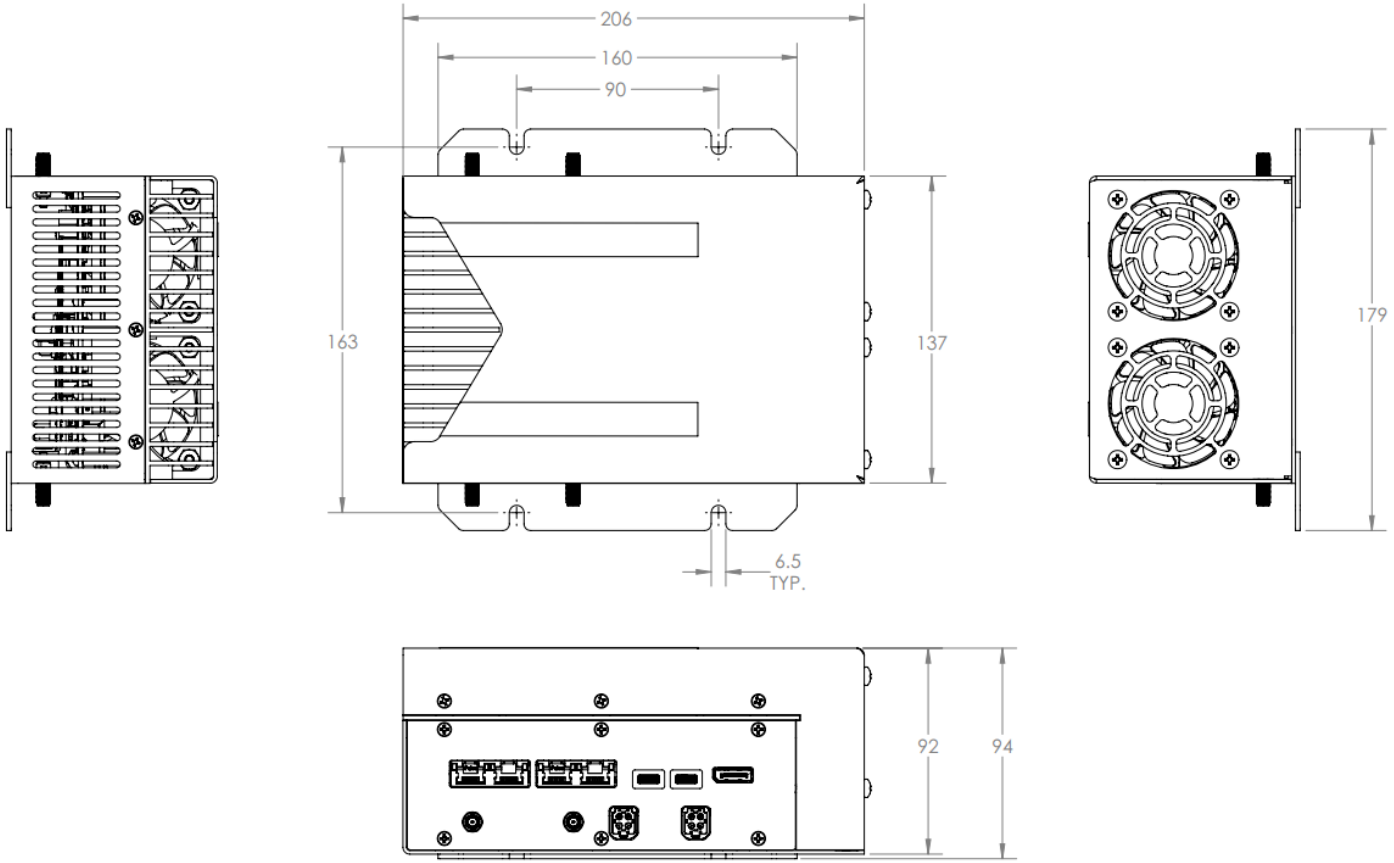
The fan can be controlled via closed loop mode (reading temp and tach as feedback) will allow the system to adjust dynamically as setup by the user. Edit the configuration file /etc/nvfancontrol.conf with a profile that meets the dynamic needs of your system utilization and thermal conditions to maintain proper system cooling. If open loop mode is needed set the '0' temp to be the PWM you require and change to open_loop for default control mode. PWM values can range from 0 (0%) -> 255 (100%).

Nvfancontrol example:

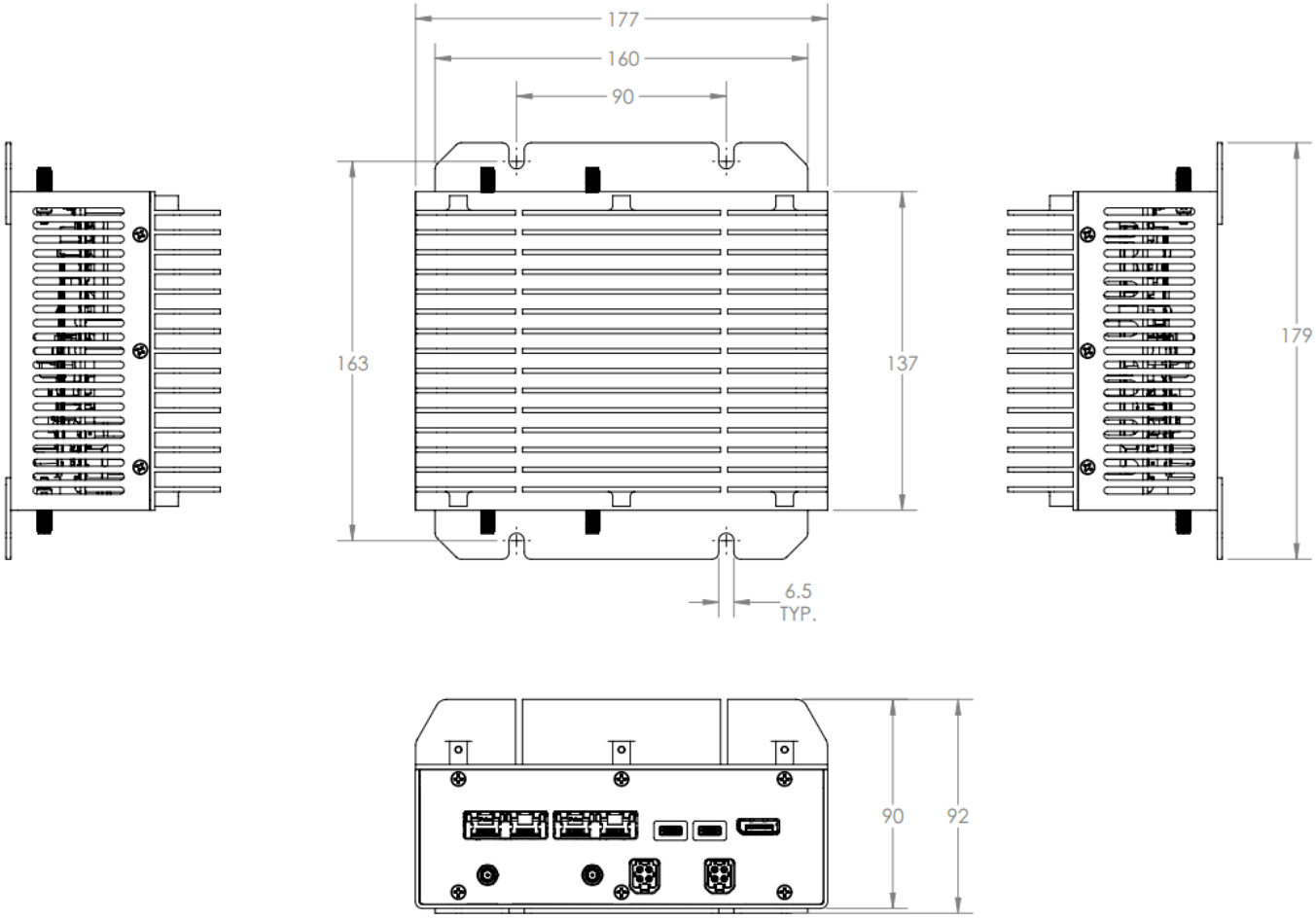
```
FAN_PROFILE quiet {
...
        }
        FAN_PROFILE full {
                #TEMP   HYST    PWM     RPM
                50      8       127     5500
                70      8       255     11000
        }
        FAN_PROFILE cool {
...
        FAN_DEFAULT_CONTROL close_loop
        FAN_DEFAULT_PROFILE full
        FAN_DEFAULT_GOVERNOR pid
```

MECHANICAL DRAWINGS & MODELS

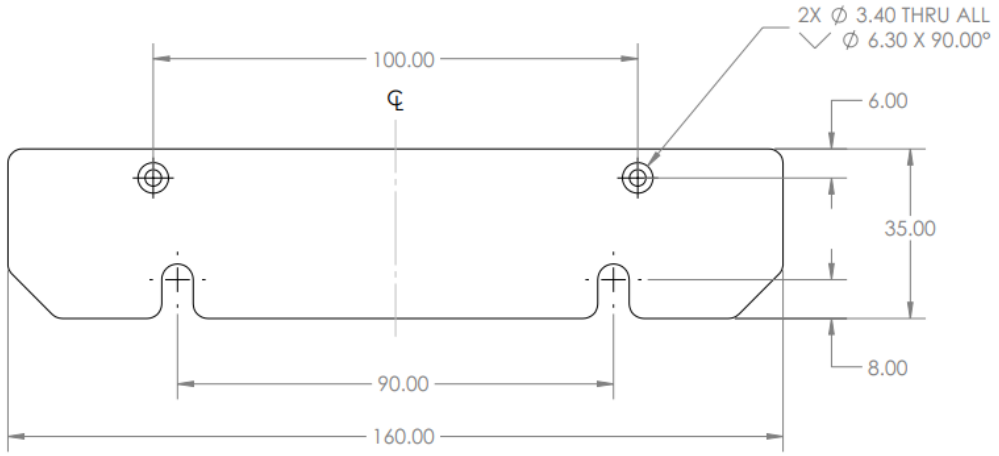
For a complete **3D STEP Model** file of the Active Cooled Anvil Embedded System (with mounting brackets shown), create a support request here.



For a complete **3D STEP Model** file of the Passive Cooled Anvil Embedded System (with mounting brackets shown), create a support request here.

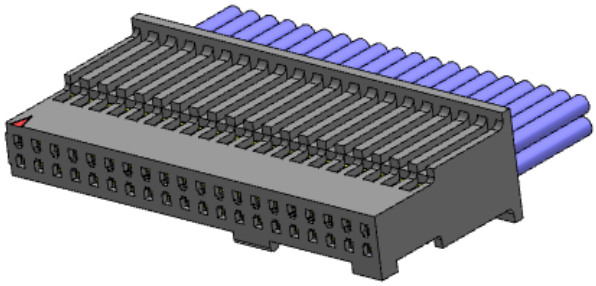


Included Mounting Backets: Each unit comes with rubber feet pre-installed. If required remove the rubber feet first before attaching the included mounting bracket using the supplied black 6mm M3 screws. Material of the bracket is 12GA aluminum (approx. 2mm thick).

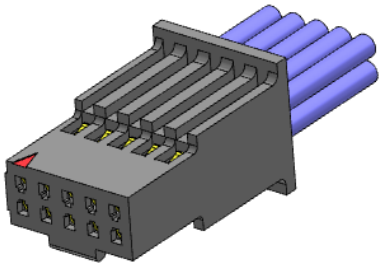


CABLES INCLUDED

CBG630 (MISC I/O connector) – 12” breakout cable with flying leads is supplied with the board purchase.



CBG631 (CAN Bus) – 12” breakout cable with flying leads is supplied with the board purchase.



CBG632 (POWER) – 12” 6 pin to 6 pin Mini-Fit Jr for use with power connections is supplied with the board purchase.

