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NOVASTATION USER MANUAL

PULSESYSYTECH

www.pulsesystech.com

support@pulsesystech.com

Revision	Date	Description
000	2025-07-16	Pre Release
001	2026-01-02	Block Diagram and Mechanical Details update

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1. PREFACE

1.1 Disclaimer

The information contained in this document is believed to be accurate and complete, but Pulesystech assumes no responsibility for the results or errors that may occur from the use of this information. Pulesystech reserves the right to change the specifications and performance of its products and documentation without notice. Therefore, purchasers are advised to contact Pulesystech for the latest information before placing an order.

1.2 Customer Support

If you encounter any issues or difficulties after reviewing this user manual or while using the carrier board, please contact Pulesystech's Field Application Engineer (FAE) team. See the contact information section below for more information on how to contact us directly.

1.3 Contant Information

Contact Information	
E-mail Address	For technical support requests: support@pulsesystech.com For wholesale inquiries: sales@pulsesystech.com
Address	Sanayi district, Teknopark Boulevard No:1/4C, Interior Door No: Z08, Pendik/Istanbul, Turkey For information requests: info@pulsesystech.com www.pulsesystech.com
Support	Please go to the www.pulsesystech.com/novastation for product manuals, installation guides, device drivers, BSPs and technical tips. Submit your technical support questions to e-mail support@pulsesystech.com of our support engineers. Technical Support representatives are available 24 hours a day, 7 days a week on our website.

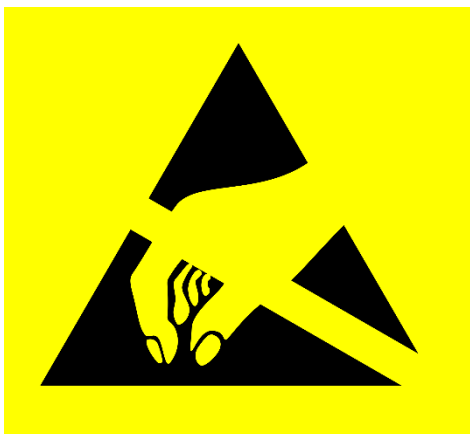
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1.6 ESD Warning



Electronic devices and printed circuit boards are vulnerable to Electrostatic Discharge (ESD). When working with any circuit board assemblies, including Pulsesytech carrier boards, it is strongly advised to follow appropriate ESD protection procedures. Recommended ESD handling practices include, but are not limited to, the following:

1. Store circuit boards in antistatic packaging until they are required for installation.
2. Wear a properly grounded wrist strap when handling boards; at a minimum, discharge static electricity by touching a grounded metal surface before contact.
3. Handle circuit boards only within designated ESD-protected environments, such as areas equipped with ESD-safe floor mats, work surfaces, wrist strap grounding points, and protective laboratory garments.
4. Do not handle circuit boards in environments with carpeted flooring.
5. Hold circuit boards by their edges whenever possible and avoid direct contact with electronic components.

1.7 Limited Product Warranty

Pulsesystech offers a two (2) year limited warranty for the carrier board, effective from the original date of purchase. To remain eligible for warranty coverage, the carrier board must not be altered, modified, or reworked in any manner. Any changes or modifications that are not expressly authorized by Pulsesystech—whether documented in this user manual or provided as written instructions by Pulsesystech Support—will result in the warranty being rendered void.

To request warranty service, the carrier board must be returned to Pulsesystech within the applicable warranty period and accompanied by the original sales invoice or other valid proof of purchase.

2. INTRODUCTION

Pulsesystech Novastation is a modular hardware platform that offers a unique advantage in terms of size and cost within the Jetson ecosystem. Thanks to its standard user ports, the system can be used directly without the need for any proprietary or custom cable sets. However, to ensure long-term, reliable, and durable use of the IO ports, optional cable sets manufactured by Pulsesystech are available.

Novastation is designed to be compatible with NVIDIA Jetson Nano, Jetson TX2 NX, Jetson Xavier NX, and Jetson Orin Nano modules. This modular architecture allows users to change the processor according to their AI development requirements while continuing to use the existing ports on the same hardware platform.

The onboard PCIe interfaces enable the integration of communication modules such as Wi-Fi and Bluetooth with minimal space requirements. In addition, NVMe SSD support allows data to be stored securely at high speeds. For alternative communication modules connected via the PCIe interfaces, customized Board Support Package (BSP) support can be provided at the operating system level, accelerating software development and system scalability.

Novastation provides four MIPI-CSI-2 camera interfaces, enabling low-latency multi-camera operation. This capability significantly enhances system performance, particularly for computer vision and AI-based visual analysis applications.

For requests such as reducing unit costs, customizing user ports, developing specialized communication interfaces, or implementing customized operating systems or Linux driver solutions, please contact Pulsesystech. We are pleased to add value to your projects through our flexible and scalable engineering expertise.

3. NOVASTATION TECHNICAL SPECIFICATIONS

Table 1. Novastation Features

Feature	Description
Module Compatibility	NVIDIA Jetson Nano NVIDIA Jetson TX2 NX NVIDIA Jetson Xavier NX NVIDIA Jetson Orin Nano
Mechanical Dimensions	85.5mm x 73.5mm x 29.2mm
Supply Voltage	9V-32V
Reverse Voltage Protection	Main Power Input Protection
Ethernet	1 x 10/100/1000BASE-T RJ45 Femele
USB	2 x USB2.0 Tip A 1 x USB 2.0 Micro-B (Recovery) 1 x USB 3.0 Tip A
Camera	1 x 4L MIPI-CSI2, 1 x 2L MIPI-CSI2, (2 x 4L MIPI-CSI2, 2 x 2L MIPI-CSI2 manufacture custom option please contact us)
PCIe	1 x M.2 E Key (1 lane PCIe Gen 3 USB 2.0) for WiFi/Bluetooth Modules 1 x M.2 M Key NVMe 2242 SSD Size (4 Lane PCIe Gen 4)
Debug	1 x USB CH340 Driver For Debug
UART	1 x RS232 (TTL/RS485 port manufacture custom option please contact us)
CAN	1 x Non-isolated CAN 2.0 (2 x Non-isolated CAN 2.0 manufacture custom option please contact us)
I2C	1 x I2C
SPI	1 X SPI
RTC Battery	2-Pin RTC Battery Connector
External Voltage Output	1 x 12V/1A 1 x 3V3/500mA 1 x 5V0/500mA
GPIO	1 x Force Recovery, 1 x Sys Reset 1 x Sleep/Wake 2 x GPIO
Circuit Operating Temperature	-40 °C...85 °C

Part Number	Description
JTSN0001V1A	Novastation

3.1 Block Diagram

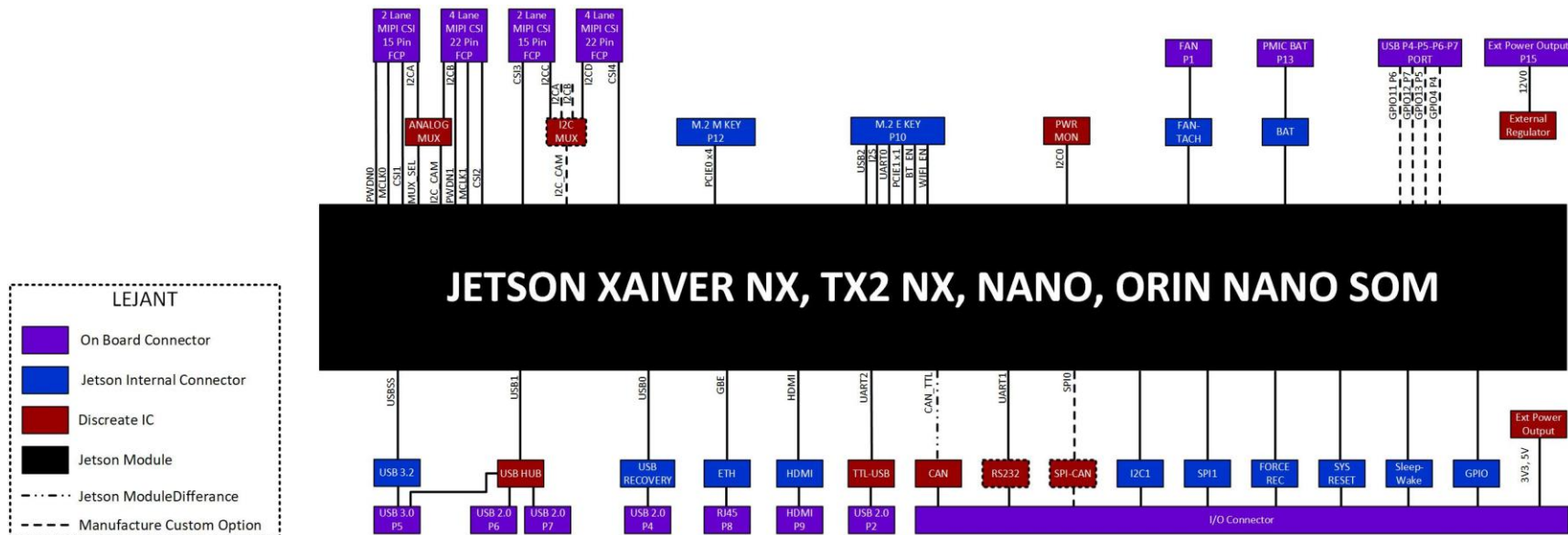


Figure 1. Novastation Signal Block Diagram

3.2 On-Circuit Connector Placement

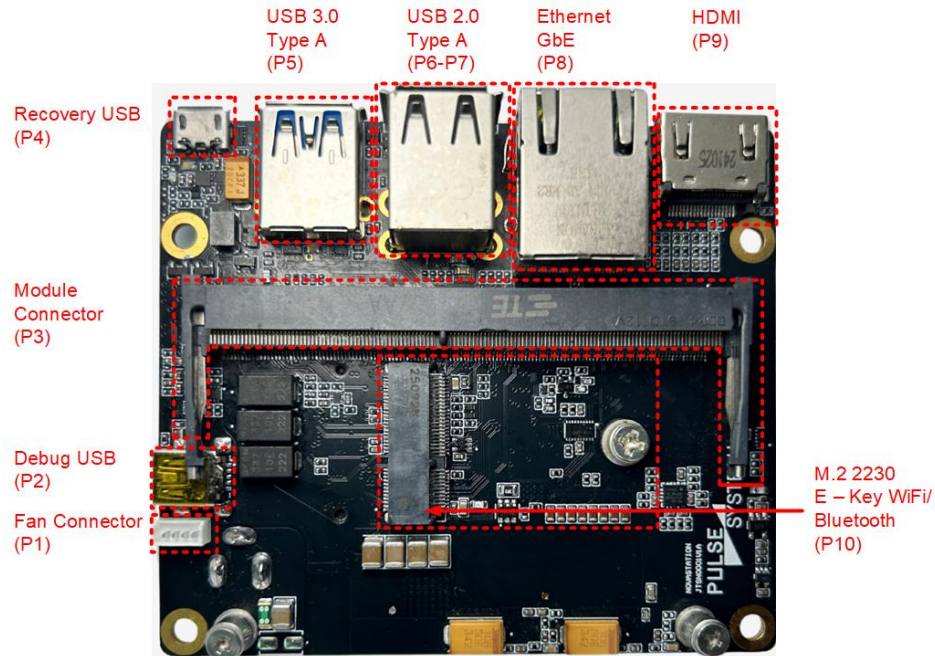


Figure 1. Novastation Top Designator

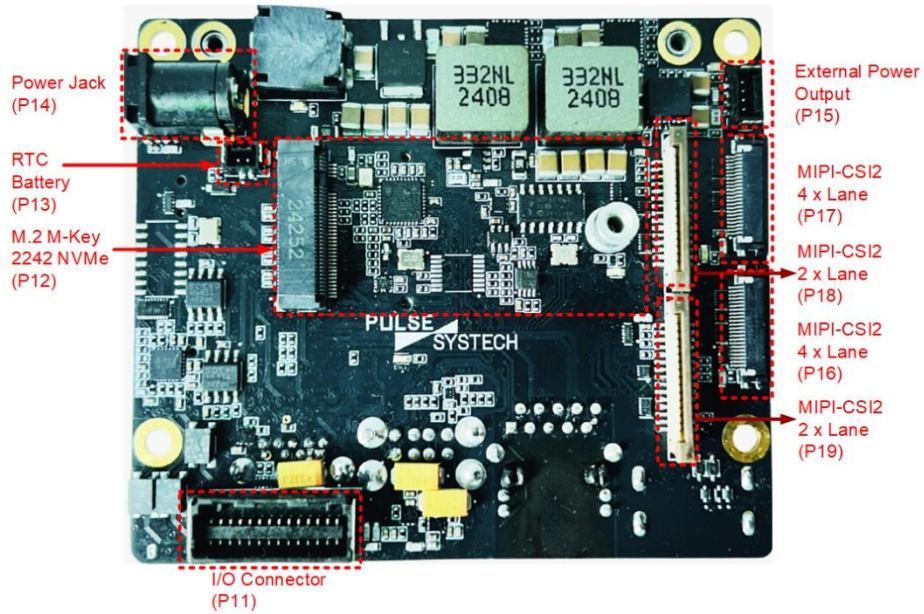


Figure 2. Novastation Bottom Designator

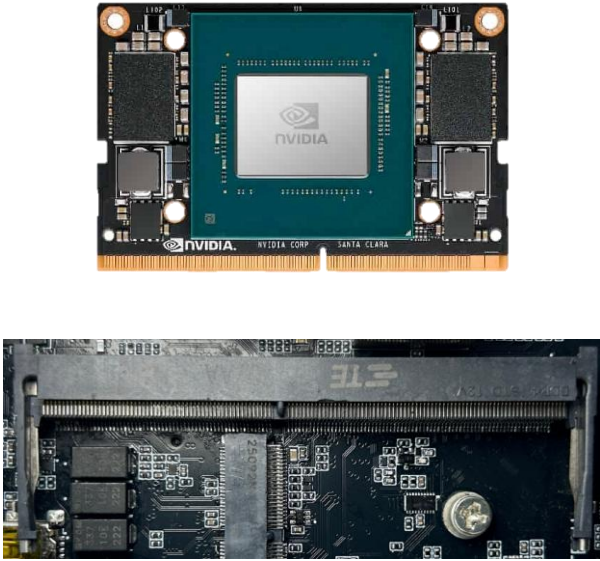
3.3 Connector Information

Descriptive	Connector	Description
P1	Fan Connector 125SH-B-04-TS	Active heatsink fan connector for Module Connector
P2	Debug USB	UART2 debug signal converted to the USB
P3	Module Connector	Nvidia Jetson Orin Nano, Xavier NX, TX2 NX, Nano Module Board-Board Connector
P4	Recovery USB	Operating system installing port
P5	USB 3.0 Connector	USB 3.0 Type-A connector
P6, P7	USB 2.0 Connector	USB 2.0 Type-A connector
P8	Gigabit Ethernet	RJ-45 Gigabit Ethernet Connector 10/100/1000/ Base-T connection
P9	HDMI	HDMI display video connector
P10	M.2 E Key Slot	M.2 2230 E-Key Wi-Fi/Bluetooth module connector
P11	I/O Connector 5054332881	GPIO signal connector
P12	M.2 M Key Slot	M.2 2242 NVMe SSD connector
P13	RTC Battery 5055680281	RTC battery connector
P14	Power Jack	Power input connector
P15	External Voltage Output 5055680471	+12V0/1A External power output connector
P16, P17	MIPI – CSI2 4 x Lane Connector	MIPI-CSI2 4x Lane camera connector
P18, P19	MIPI – CSI2 2 x Lane Connector	MIPI-CSI2 2x Lane camera connector

4. NOVASTATION DETAILED TECHNICAL EXPLANATIONS

4.1 Module Connector

The Jetson Orin Nano, Xavier NX, TX2 NX, Nano is connected to the Novastation for carrier board via a TE Connectivity DDR4 SODIMM 260 Pin connector.

Function	Description	
Location	P3	
Type	TE Connectivity DDR4 SODIMM 260 Pin	
Connector Part Number	2309413-1	
Pin Diagram	System-On-Module datasheet for pinout details https://developer.nvidia.com/embedded/downloads	

4.2 HDMI Connector

The Jetson NX and Nano modules will output video via the Novastation for HDMI connector that is HDMI 2.0 capable.

Function	Description	
Location	P9	
Type	HDMI Connector	
Mate Connector Part Number	HDMI Type-A Cable	
Pin Diagram	Refer to HDMI Standard	

4.3 Ethernet GbE Connector

The Jetson NX and Nano modules will allow internet communication via GbE 10/100/1000 Ethernet connector as below.

Function	Description	
Location	P8	
Type	RJ-45 Connector	
Mate Connector Part Number	RJ-45 Ethernet Cable	
Pin Diagram	Refer to Ethernet Standard	

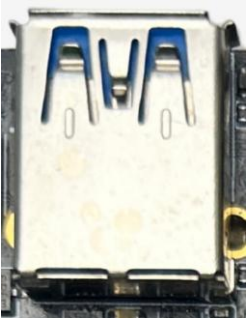
4.4 USB 2.0 Type-A Connector

The Novastation incorporates 2 x USB 2.0 Type-A connectors with a 0.5A current limit per connector.

Function	Description	
Location	P6-P7	
Type	USB Type-A Connector	
Mate Connector Part Number	USB Type-A Cable	
Pin Diagram	Refer to USB Standard	

4.5 USB 3.0 Type-A Connector

The Novastation incorporates USB 3.0 Type-A connectors with a 0.9A current limit per connector.

Function	Description	
Location	P5	
Type	USB Type-A Connector	
Mate Connector Part Number	USB Type-A Cable	
Pin Diagram	Refer to USB Standard	

4.6 Recovery Micro USB 2.0 Connector

The Novastation incorporates Micro USB recovery connectors.

Function	Description	
Location	P4	
Type	Micro USB Connector	
Mate Connector Part Number	Micro USB Cable	
Pin Diagram	Refer to USB Standard	

4.7 Debug USB Connector

The Novastation incorporates Mini USB debug UART connectors.

Function	Description	
Location	P2	
Type	Mini USB Connector	
Mate Connector Part Number	Mini USB Cable	
Pin Diagram	Refer to USB Standard	

4.8 Fan Connector

The Novastation implements a 4 Position connector for active cooling capability.

Function	Description
Location	P1
Type	4 Position 1.25mm Board to Cable Connector
Connector Part Number	125SH-B-04-TS
Mate Connector Part Number	51021-0400
Pin Diagram	
Pin 1	GND
Pin 2	5V0
Pin 3	FAN_TACH
Pin 4	FAN_PWM



4.9 M.2 E-Key – WiFi and Bluetooth Port

Novastation implements an M.2 2230 E-Key for a PCIe x1, USB 2.0 Wi-Fi/Bluetooth Module.

Function		Description	
Location		P10	
Type		M.2 E-key 2230	
Mate		E-key WiFi/BT module	
Pin Diagram			
Pin 1	GND	Pin 44	N.C.
Pin 2	+3V3	Pin 45	GND
Pin 3	USB2_AP_P	Pin 46	N.C.
Pin 4	+3V3	Pin 47	PCIE1_CLK_P
Pin 5	USB2_AP_N	Pin 48	N.C.
Pin 6	N.C.	Pin 49	PCIE1_CLK_N
Pin 7	GND	Pin 50	M2E_SUSCLK_32KHZ
Pin 8	I2S1_SCLK	Pin 51	GND
Pin 9	N.C.	Pin 52	PCIE1_RST_N
Pin 10	I2S1_LRCK	Pin 53	PCIE1_CLKREQ_N
Pin 11	N.C.	Pin 54	M2E_WDISABLE2
Pin 12	I2S1_SDIN	Pin 55	PCIE_WAKE
Pin 13	N.C.	Pin 56	M2E_WDISABLE1
Pin 14	I2S1_SDOUT	Pin 57	GND
Pin 15	N.C.	Pin 58	N.C.
Pin 16	N.C.	Pin 59	N.C.
Pin 17	N.C.	Pin 60	N.C.
Pin 18	GND	Pin 61	N.C.
Pin 19	N.C.	Pin 62	N.C.
Pin 20	N.C.	Pin 63	GND
Pin 21	N.C.	Pin 64	N.C.
Pin 22	UART0_RXD	Pin 65	N.C.
Pin 23	N.C.	Pin 66	N.C.
Pin 32	UART0_TXD	Pin 67	N.C.
Pin 33	GND	Pin 68	N.C.
Pin 34	UART0_CTS	Pin 69	GND
Pin 35	PCIE1_TX0_P	Pin 70	N.C.
Pin 36	UART0_RTS	Pin 71	N.C.
Pin 37	PCIE1_TX0_N	Pin 72	+3V3
Pin 38	N.C.	Pin 73	N.C.
Pin 39	GND	Pin 74	+3V3
Pin 40	N.C.	Pin 75	GND
Pin 41	PCIE1_RX0_P	MNT1	GND
Pin 42	N.C.	MNT2	GND
Pin 43	PCIE1_RX0_N		

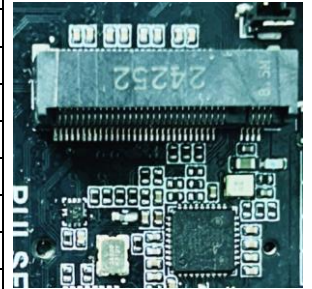




4.10 M.2 M-Key 2242 NVMe x4 Port

Novastation implements an M.2 2242 M-Key for a PCIe x4 Gen 4 NVMe.

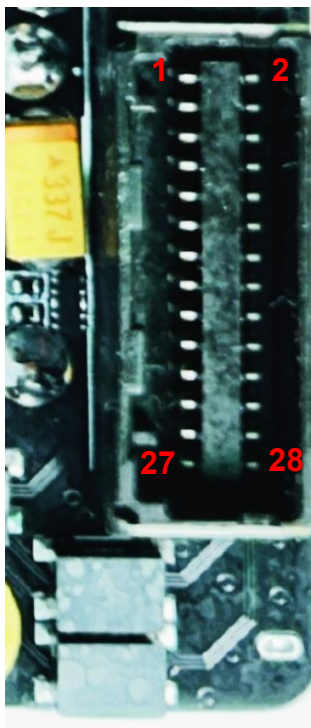
Function		Description			
Location		P12			
Type		M.2 M-key 2242			
Mate		M-key NVMe			
Pin Diagram					
Pin 1	GND	Pin 24	N.C.	Pin 47	PCIE0_TX0_N
Pin 2	+3V3	Pin 25	PCIE0_TX2_P	Pin 48	N.C.
Pin 3	GND	Pin 26	N.C.	Pin 49	PCIE0_TX0_N
Pin 4	+3V3	Pin 27	GND	Pin 50	PCIE0_RST_N
Pin 5	PCIE0_RX3_N	Pin 28	N.C.	Pin 51	GND
Pin 6	N.C.	Pin 29	PCIE0_RX1_N	Pin 52	PCIE0_CLKREQ_N
Pin 7	PCIE0_RX3_P	Pin 30	N.C.	Pin 53	PCIE0_CLK_N
Pin 8	N.C.	Pin 31	PCIE0_RX1_P	Pin 54	PCIE_WAKE
Pin 9	GND	Pin 32	N.C.	Pin 55	PCIE0_CLK_P
Pin 10	N.C.	Pin 33	GND	Pin 56	N.C.
Pin 11	PCIE0_TX3_N	Pin 34	N.C.	Pin 57	GND
Pin 12	+3V3	Pin 35	PCIE0_TX1_N	Pin 58	N.C.
Pin 13	PCIE0_TX3_P	Pin 36	N.C.	Pin 67	N.C.
Pin 14	+3V3	Pin 37	PCIE0_TX1_P	Pin 68	32KHZ_CLK
Pin 15	GND	Pin 38	N.C.	Pin 69	N.C.
Pin 16	+3V3	Pin 39	GND	Pin 70	+3V3
Pin 17	PCIE0_RX2_N	Pin 40	N.C.	Pin 71	GND
Pin 18	+3V3	Pin 41	PCIE0_RX0_N	Pin 72	+3V3
Pin 19	PCIE0_RX2_P	Pin 42	N.C.	Pin 73	GND
Pin 20	N.C.	Pin 43	PCIE0_RX0_P	Pin 74	+3V3
Pin 21	GND	Pin 44	N.C.	Pin 75	GND
Pin 22	N.C.	Pin 45	GND	MNT1	N.C.
Pin 23	PCIE0_TX2_N	Pin 46	N.C.	MNT2	N.C.



4.11 I/O Connector

The Novastation implements a 5054332881 Connector to allow access for additional GPIO and interfaces.

Function		Description	
Location		P11	
Type		Board to Cable	
Connector Part Number		5054332881	
Mate Connector Part Number		5054322801	
Pin Diagram			
Pin 1	SPI1_CS0	Pin 2	SLEEP / WAKE
Pin 3	SPI1_MISO	Pin 4	SYS_RESET
Pin 5	SPI1_SCK	Pin 6	RECOVERY
Pin 7	SPI1_MOSI	Pin 8	GND
Pin 9	GND	Pin 10	GND
Pin 11	I2C1_SCL	Pin 12	3V3 OUT
Pin 13	I2C1_SDA	Pin 14	GND
Pin 15	GND	Pin 16	5V0 OUT
Pin 17	N.C.	Pin 18	GPIO_7
Pin 19	N.C.	Pin 20	GPIO_9
Pin 21	CAN1_L	Pin 22	N.C. (MFO-RS485_TX_L)
Pin 23	CAN1_H	Pin 24	RS232_TX (MFO-RS485_TX_H)
Pin 25	CAN2_L	Pin 26	RS232_RX (MFO-RS485_RX_H)
Pin 27	CAN2_H	Pin 28	N.C. (MFO-RS485_RX_L)

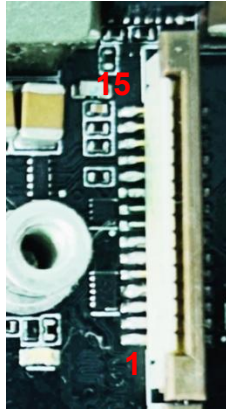
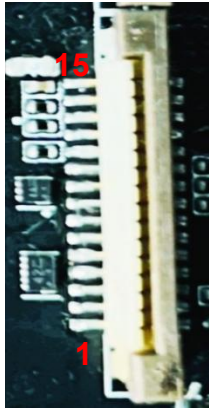


4.12 22-Pin MIPI-CSIx4 Connector

Novastation allows 22-Pin MIPI-CSI2 4 x Lane video through the SFV22R-1STE1HLF connectors.

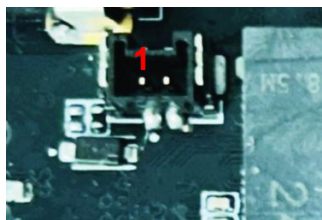
Function		Description		P16	P17
Location		P16-P17			
Type		Board to Cable			
Connector Part Number		SFV22R-1STE1HLF			
Mate Connector Part Number		Flex Ribbon Cable 22-pin 0.5mm pitch			
Pin Diagram					
P16		P17 (MFO)			
Pin 1	+3V3	Pin 1	+3V3		
Pin 2	I2CA_SDA	Pin 2	I2CD_SDA		
Pin 3	I2CA_SCL	Pin 3	I2CD_SCL		
Pin 4	GND	Pin 4	GND		
Pin 5	CAM0_MCLK_1V8	Pin 5	N.C.		
Pin 6	CAM0_PWDN_3V3	Pin 6	Pull-Up (3V3)		
Pin 7	GND	Pin 7	GND		
Pin 8	CSI1_D1_P	Pin 8	CSI4_D3_P		
Pin 9	CSI1_D1_N	Pin 9	CSI4_D3_N		
Pin 10	GND	Pin 10	GND		
Pin 11	CSI1_D0_P	Pin 11	CSI4_D2_P		
Pin 12	CSI1_D0_N	Pin 12	CSI4_D2_N		
Pin 13	GND	Pin 13	GND		
Pin 14	CSI0_CLK_P	Pin 14	CSI4_CLK_P		
Pin 15	CSI0_CLK_N	Pin 15	CSI4_CLK_N		
Pin 16	GND	Pin 16	GND		
Pin 17	CSI0_D1_P	Pin 17	CSI4_D1_P		
Pin 18	CSI0_D1_N	Pin 18	CSI4_D1_N		
Pin 19	GND	Pin 19	GND		
Pin 20	CSI0_D0_P	Pin 20	CSI4_D0_P		
Pin 21	CSI0_D0_N	Pin 21	CSI4_D0_N		
Pin 22	GND	Pin 22	GND		

4.13 15-Pin MIPI-CSIx2 Connector

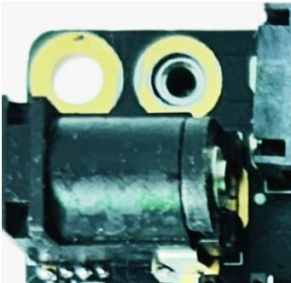
Function		Description		P18	P19
Location		P18-P19			
Type		Board to Cable			
Connector Part Number		FFC3A20-15-G			
Mate Connector Part Number		Flex Ribbon Cable 15-pin 1.0mm pitch			
Pin Diagram					
P18		P19 (MFO)			
Pin 1	GND	Pin 1	GND		
Pin 2	CSI2_D0_N	Pin 2	CSI3_D0_N		
Pin 3	CSI2_D0_P	Pin 3	CSI3_D0_P		
Pin 4	GND	Pin 4	GND		
Pin 5	CSI2_D1_N	Pin 5	CSI3_D1_N		
Pin 6	CSI2_D1_P	Pin 6	CSI3_D1_P		
Pin 7	GND	Pin 7	GND		
Pin 8	CSI2_CLK_N	Pin 8	CSI3_CLK_N		
Pin 9	CSI2_CLK_P	Pin 9	CSI3_CLK_P		
Pin 10	GND	Pin 10	GND		
Pin 11	CAM1_PWDN_3V3	Pin 11	Pull-Up (3V3)		
Pin 12	CAM1_MCLK_1V8	Pin 12	N.C.		
Pin 13	I2CB_SCL	Pin 13	I2CC_SCL		
Pin 14	I2CB_SDA	Pin 14	I2CC_SDA		
Pin 15	+3V3	Pin 15	+3V3		

4.14 RTC Battery Connector

Function	Description
Location	P13
Type	Board to Cable
Connector Part Number	5055680281
Mate Connector Part Number	5055650201
Pin Diagram	
Pin 1	VCC_RTC
Pin 2	GND

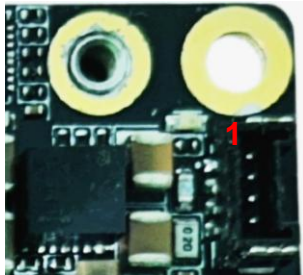


4.15 Power Input Jack Connector

Function	Description	
Location	P14	
Type	Jack	
Mate Connector Part Number	2.0mm ID, 6.50mm OD	
Pin Diagram	Refer to power jack standard	

4.16 External Power Output

Function	Description
Location	P15
Type	Board to Cable
Connector Part Number	5055680471
Mate Connector Part Number	5055650401
Pin Diagram	
Pin 1	+12V0
Pin 2	+12V0
Pin 3	GND
Pin 4	GND



5. TYPICAL INSTALLATION

1. Apply all safety precautions specified in section 1.6 ESD Warning.
2. Before using Novastation, ensure that none of the onboard ports (P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19) are connected and that no external power source is applied.
3. If Wi-Fi / Bluetooth functionality is required in Novastation, install the Wi-Fi / Bluetooth module into the P10 connector using the F2 component specified in 8. MECHANICAL DETAILS.
4. If SSD or M.2 M-Key PCIe module functionality is required in NovaStation, install the SSD or M.2 M-Key PCIe module into the P12 connector using the F3 component specified in 8. MECHANICAL DETAILS.
5. Install the NVIDIA Jetson processor module into the P3 connector using the F1 component specified in 8. MECHANICAL DETAILS.

Ensure that the manufacturer's instructions are followed to correctly install the mounting hardware, heatsink or heat spreader, as well as any other applicable installation requirements.

6. To install the operating system on the NVIDIA Jetson module, the following system requirements must be met:
 - a. To place the NVIDIA Jetson module into recovery mode, connect the corresponding 0118060001 cable to the P11 connector and pull pin 6 to a low level (connect to GND).
 - b. Connect a power supply within the operating voltage range to the P14 connector via the power jack.
 - c. Establish a host PC connection to the P4 connector using a Data Micro-USB cable.

Once these connections are completed, the system will be ready for operating system installation. The operating system installation steps can be accessed at www.pulsesystech.com/support

7. After the installation is complete, the system can be operated either via an HDMI cable connected to the P9 display interface or through the P2 Debug USB connection. Instructions for using the P2 Debug USB interface are available at www.pulsesystech.com/support

6. PACKAGE INCLUDE

Descriptive	Part Number	Description
F1	030101-RP5M2.5	Jetson SOM Module Screw
F2	030101-RP3M3	M.2 E Key WiFi/Bluetooth Screw
F3	030101-RP5M3	M.2 M Key Screw

Please refer to section 8. MECHANICAL DETAILS for the installation locations of the components.

7. CABLES (NOT INCLUDE)

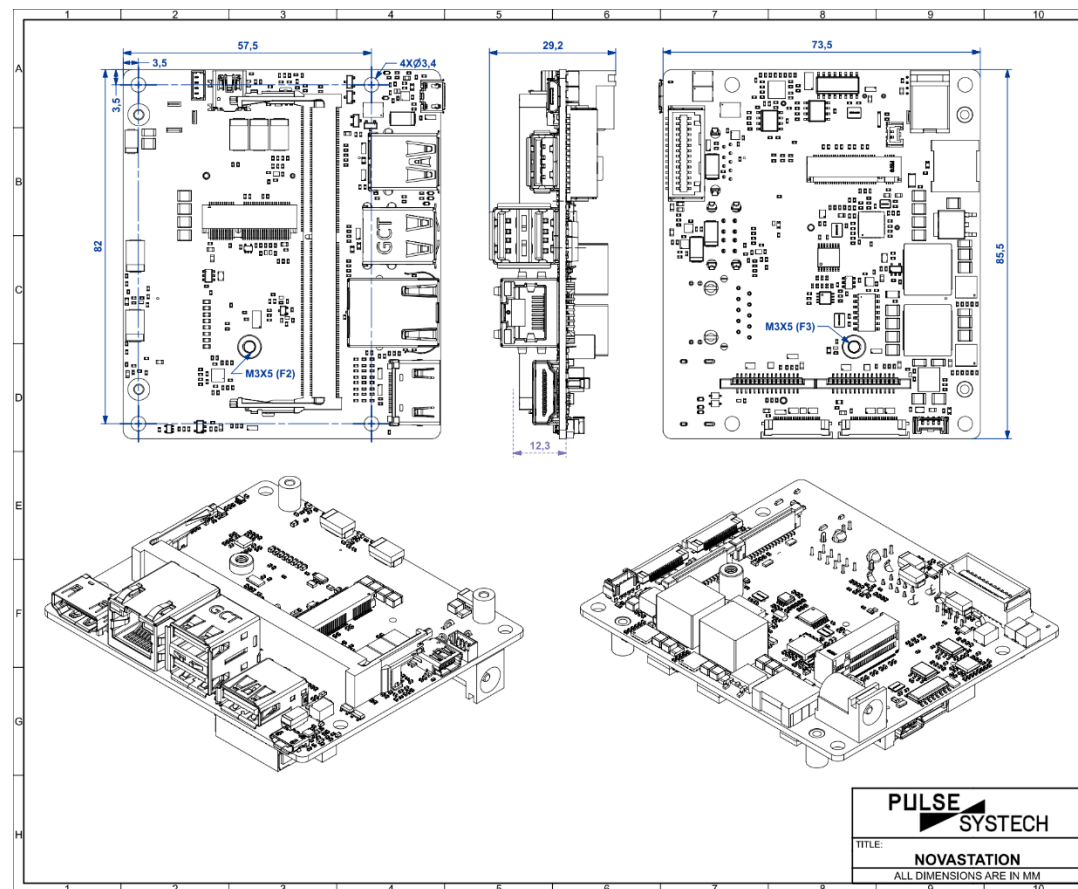
Description	Part Number	QTY	Image
This is the cabled mating connector corresponding to the P11 I/O connector on the board. This connector is required to enable the Force Recovery connection.	0118060001	1	
The P13 connector is the mating cabled connector for the RTC battery.	0118060002	1	-
The P15 connector is the mating connector for the external voltage output cable.	0118060003	1	-

8. MECHANICAL DETAILS

Complete 3D CAD models of all Novastation assemblies are available at the following location:

https://www.pulsesystech.com/wp-content/uploads/2025/12/JTSN0001V1A_2025_12_25.zip

8.1 JTSN0001V1A – Novastation Stand Alone Drawings



8.2 JTSN0001V1A – Novastation with Jetson Orin Nano Module

