



MILBOX-THR

USER MANUAL

UM-MBXTHR-01

Document Revision: 1.11

17/08/2026



Forecr
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Preface

Disclaimer

Forecr emphasizes that the information contained in this user manual is continuously updated in line with the technical modifications and enhancements made by Forecr to its MILBOX-THR. Therefore, this manual only represents the technical status of Forecr MILBOX-THR at the time of publishing.

Forecr shall not be held responsible for any damages that may occur directly or indirectly as a result of any technical or typographical errors or omissions found in this document or for any discrepancies between the product and the user's manual.

Customer Support

In case you encounter any challenges after reading the user manual and/or using the MILBOX-THR, please reach out to the Forecr reseller from which you purchased the MILBOX-THR.

See the contact information section below for more information on how to contact us directly.

Contact Information

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Limited Product Warranty

Forecr provides a 1-year Warranty for the MILBOX-THR. This warranty period is valid from the original purchase date of the MILBOX-THR. In order to maintain warranty, the MILBOX-THR must not be altered or modified in any way. Changes or modifications to the MILBOX-THR that are not explicitly approved by Forecr and described in this user manual or received from Forecr Support as a special handling instruction, will void your warranty.

To receive warranty service, the MILBOX-THR must be delivered to Forecr within the warranty period together with the original invoice or proof of purchase.

Revision History

Revision No	Revision Date	Revision Description
1.0	05.06.2026	Preliminary Release
1.1	13.08.2026	Updated Section 2.1, MILBOX-THR visuals, and block diagram. Added JetPack 7.x installation guide details, a 3D model of MILBOX-THR, a Connectivity (GPIO) section, cable descriptions, power consumption details, and MTBF data.
1.11	17.08.2026	Updated ambient conditions.

1. Introduction

The MILBOX-THR is an advanced military-grade Edge AI computer powered by the NVIDIA® Jetson™ AGX Thor platform, delivering server-class computational performance and absolute reliability in the harshest environments.

Designed to fully comply with MIL-STD-810G, MIL-STD-461G, MIL-STD-704F, MIL-STD-1275D, and DO-160G standards, the system operates reliably under extreme temperature, intense vibration, and severe humidity conditions. Featuring 4x 10G Ethernet, multiple 3G-SDI and HDMI 2.0 output, isolated serial links, CAN FD bus interfaces, and PCIe Gen5 expansion slots, the device provides comprehensive, high-bandwidth connectivity for defense, aerospace, and autonomous mission platforms.

Equipped with an 11–60 VDC wide power input, integrated TPM 2.0 security, an advanced IMU, internal temperature sensing, and digital I/Os, the computing platform delivers data-center-class intelligence directly to the tactical edge.

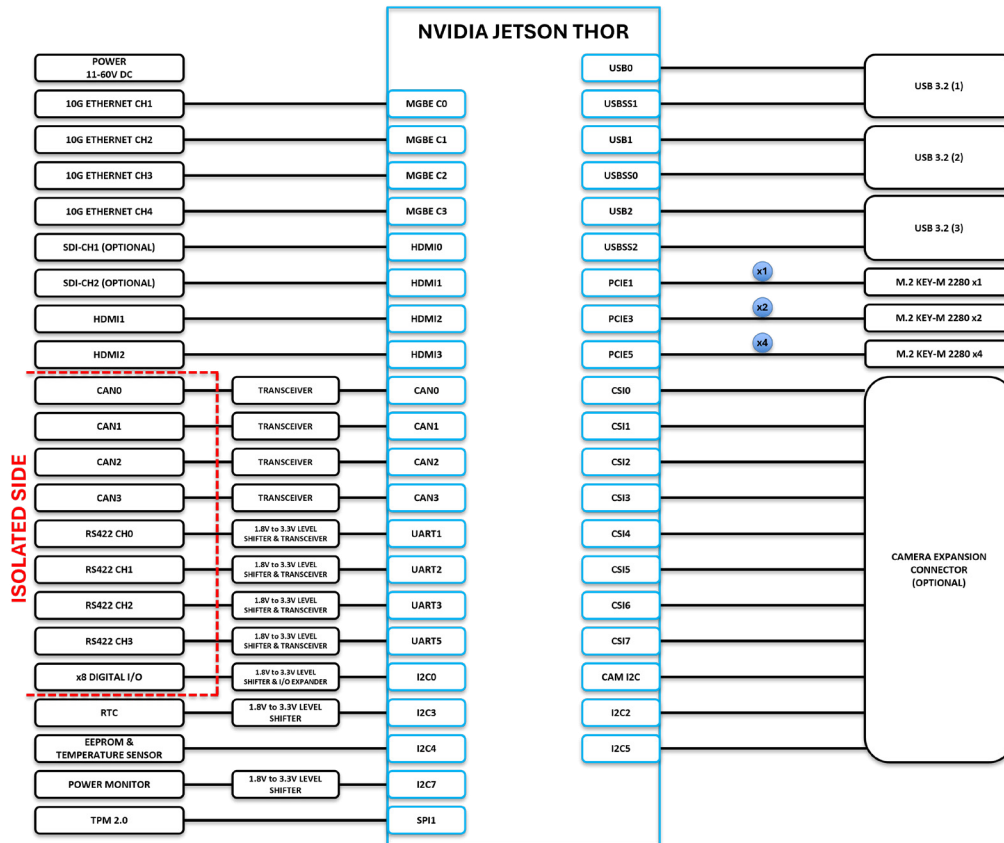
The latest revision of this user manual, datasheet, and 3D model can be downloaded from the [Forecr](#) website.

2. Product Specification

2.1 Technical Specification

Supported Modules	NVIDIA Jetson T4000 NVIDIA Jetson T5000 NVIDIA IGX T5000
Memory	64 GB 256-bit LPDDR5X 128 GB 256-bit LPDDR5X
Graphics Interfaces	2x HDMI 2.0 Display Output
Optional Video Interfaces	3G-SDI Display Output 3G-SDI Video Input Analog Video Input GMSL2 Video Input
Interfaces	4x 10G Ethernet (Copper) 3x USB3.2 4x CAN FD (Isolated) 4x RS-232/422/485 (Isolated) 8x Digital I/O (3.3V Level, Isolated) TPM2.0 Chipset 6-Axis IMU & Temperature Sensor EEPROM
Wireless Communication	None
Power Supply	11-60 VDC
Extension Sockets	1x M.2 Key-M 2280 PCIe Gen5 x4 1x M.2 Key-M 2280 PCIe Gen5 x2 1x M.2 Key-M 2280 PCIe Gen5 x1 Camera Expansion Slot (for optional Analog Video Input or GMSL2 features)
Mass Storage	Up to three NVMe SSD support
Ambient Conditions	-40°C ... +70°C (with IGX T5000) -25°C ... +70°C (with Jetson T4000/T5000)
Form Factor / Dimensions (WxLxH)	300mm x 225mm x 103mm, 6.1kg
Operating Systems	Ubuntu Linux 24.04
Operating Humidity	5% - 95% (Non-Condensing)
Standards (Designed to Meet)	MIL-STD-810G, MIL-STD-461G, MIL-STD-704F, MIL-STD-1275D, DO-160G
JetPack Support	JetPack 7.x

2.2 Block Diagram



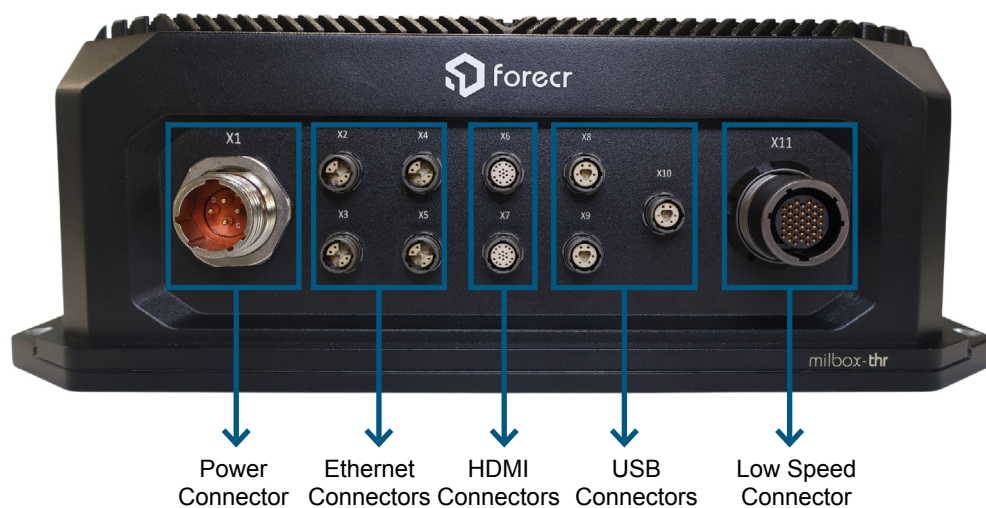
2.3 MILBOX Visuals



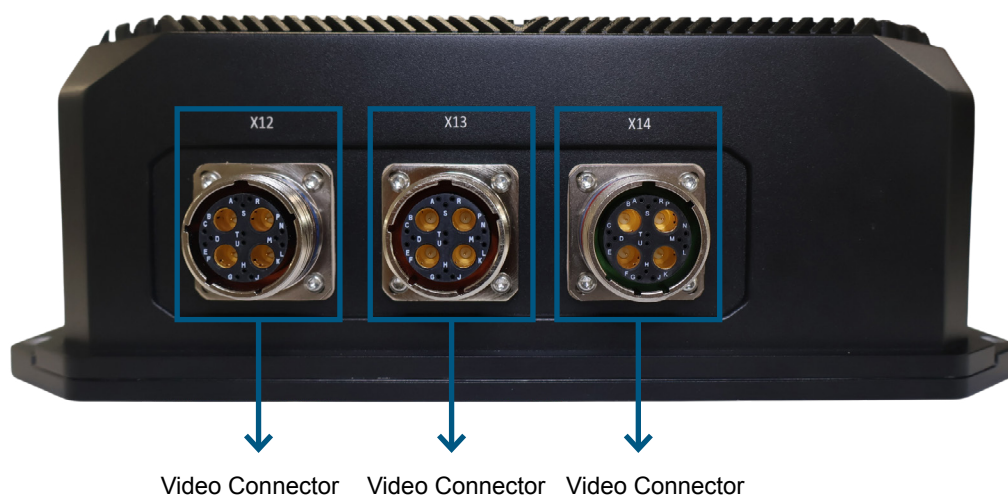
3. Hardware Information

3.1 Connector Location

3.1.1 Front Side



3.1.2 Rear Side

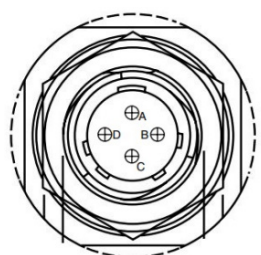


3.2 List of Connector

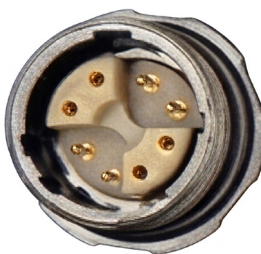
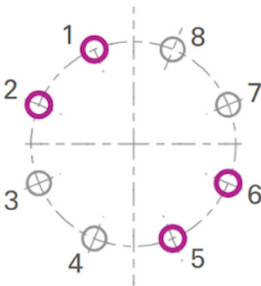
Connectors
MILBOX-THR Power Connector - (X1)
MILBOX-THR Ethernet Connector - (X2)
MILBOX-THR Ethernet Connector - (X3)
MILBOX-THR Ethernet Connector - (X4)
MILBOX-THR Ethernet Connector - (X5)
MILBOX-THR HDMI Connector - (X6)
MILBOX-THR HDMI Connector - (X7)
MILBOX-THR USB Connector - (X8)
MILBOX-THR USB Connector - (X9)
MILBOX-THR USB Connector - (X10)
MILBOX-THR Low Speed Connector - (X11)
MILBOX-THR Video Connectors - (X12, X13, X14)

3.3 Definition of Each Connector

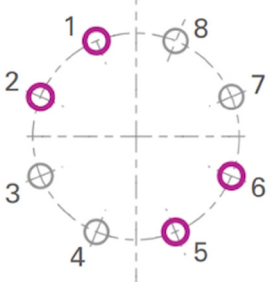
3.3.1 Power Connector (X1)

	Function		Description		
	Connector Type		D38999/24FC4PN		
	Mating Connector		D38999/26FC4SN		
	Voltage Range		11-60 VDC		
			Pinout		Pin
			A	VIN	
			B	VIN	
			C	GND	
			D	GND	

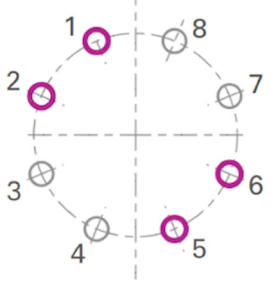
3.3.2 Ethernet Connector (X2)

	Function		Description	
	Connector Type		MR11WS08_0008_AN1_E1AP	
	Mating Connector		MP11ZS08_0008_AN1_Z1AS	
			Pin	Description
			1	ENET_10G_CH3.D0_N
2			ENET_10G_CH3.D0_P	
3			ENET_10G_CH3.D1_N	
4			ENET_10G_CH3.D1_P	
	5	ENET_10G_CH3.D2_N		
	6	ENET_10G_CH3.D2_P		
	7	ENET_10G_CH3.D3_N		
	8	ENET_10G_CH3.D3_P		

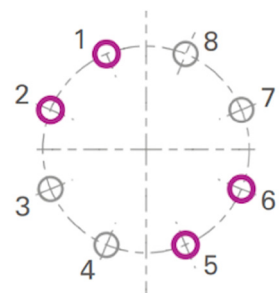
3.3.3 Ethernet Connector (X3)

	Function		Description
	Connector Type		MR11WS08_0008_AN1_E1AP
	Mating Connector		MP11ZS08_0008_AN1_Z1AS
	Pinout	Pin	Description
		1	ENET_10G_CH1.D0_P
		2	ENET_10G_CH1.D0_N
		3	ENET_10G_CH1.D1_P
		4	ENET_10G_CH1.D1_N
		5	ENET_10G_CH1.D2_P
		6	ENET_10G_CH1.D2_N
		7	ENET_10G_CH1.D3_P
		8	ENET_10G_CH1.D3_N

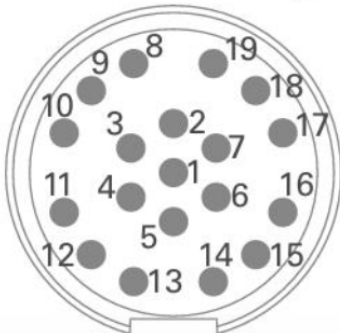
3.3.4 Ethernet Connector (X4)

	Function		Description
	Connector Type		MR11WS08_0008_AN1_E1AP
	Mating Connector		MP11ZS08_0008_AN1_Z1AS
	Pinout	Pin	Description
		1	ENET_10G_CH4.D0_N
		2	ENET_10G_CH4.D0_P
		3	ENET_10G_CH4.D1_N
		4	ENET_10G_CH4.D1_P
		5	ENET_10G_CH4.D2_N
		6	ENET_10G_CH4.D2_P
		7	ENET_10G_CH4.D3_N
		8	ENET_10G_CH4.D3_P

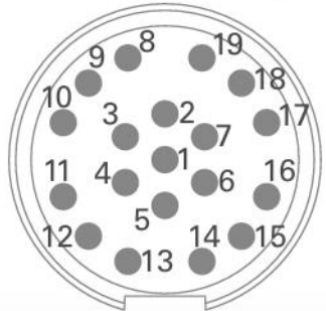
3.3.5 Ethernet Connector (X5)

	Function		Description	
	Connector Type		MR11WS08_0008_AN1_E1AP	
	Mating Connector		MP11ZS08_0008_AN1_Z1AS	
	Pinout		Pin	Description
			1	ENET_10G_CH2.D0_P
			2	ENET_10G_CH2.D0_N
			3	ENET_10G_CH2.D1_P
			4	ENET_10G_CH2.D1_N
			5	ENET_10G_CH2.D2_P
			6	ENET_10G_CH2.D2_N
			7	ENET_10G_CH2.D3_P
	8	ENET_10G_CH2.D3_N		

3.3.6 HDMI Connector (X6)

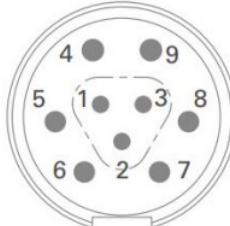
	Function		Description	
	Connector Type		MR11WS08_H019_AN1_E1AP	
	Mating Connector		MP11ZS08_H019_AN1_Z1MS	
	Pinout	Pin	Description	
		1	VDD_5V_HDMI3	
		2	DGND	
		3	NC	
		4	HDMI3_CON.HPD	
		5	HDMI3_CON.SDA	
		6	HDMI3_CON.SCL	
		7	NC	
		8	HDMI3_CON.TXD2_N	
		9	DGND	
		10	HDMI3_CON.TXD1_P	
		11	HDMI3_CON.TXD1_N	
		12	DGND	
		13	HDMI3_CON.TXD0_P	
		14	HDMI3_CON.TXD0_N	
		15	DGND	
		16	HDMI3_CON.TXC_P	
		17	HDMI3_CON.TXC_N	
		18	DGND	
19	HDMI3_CON.TXD2_P			

3.3.7 HDMI Connector (X7)

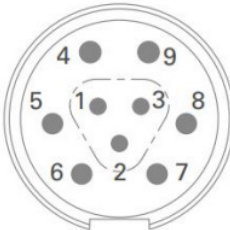
	Function		Description	
	Connector Type		MR11WS08_H019_AN1_E1AP	
	Mating Connector		MP11ZS08_H019_AN1_Z1MS	
	Pinout		Pin	Description
			1	VDD_5V_HDMI2
			2	DGND
			3	NC
			4	HDMI2_CON.HPD
			5	HDMI2_CON.SDA
			6	HDMI2_CON.SCL
			7	NC
			8	HDMI2_CON.TXD2_N
			9	DGND
			10	HDMI2_CON.TXD1_P
			11	HDMI2_CON.TXD1_N
			12	DGND
			13	HDMI2_CON.TXD0_P
			14	HDMI2_CON.TXD0_N
			15	DGND
			16	HDMI2_CON.TXC_P
			17	HDMI2_CON.TXC_N
			18	DGND
19	HDMI2_CON.TXD2_P			

3.3.8 USB Connector (X8)

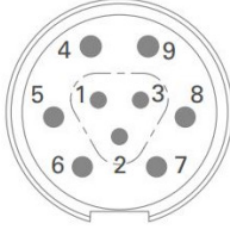
	Function		Description	
	Connector Type		MR11WS08_0009_AN1_E1AP	
	Mating Connector		MP11ZS08 2007 AN1 Z1AS	
	Pinout		Pin	Description
1			USBSS1_CONN.D_N	
2			DGND	
3			USBSS1_CONN.D_P	
4			USBSS1_VBUS	
5			USBSS1_CONN.TX_N	
6			USBSS1_CONN.TX_P	
7			USBSS1_CONN.RX_N	
8			USBSS1_CONN.RX_P	
9			DGND	

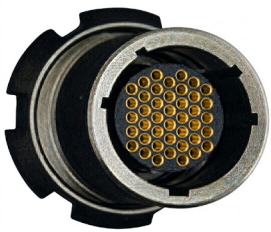
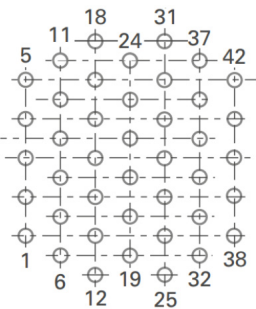
3.3.9 USB Connector (X9)

	Function		Description	
	Connector Type		MR11WS08_0009_AN1_E1AP	
	Mating Connector		MP11ZS08 2007 AN1 Z1AS	
	Pinout	Pin	Description	
		1	USBSS2_CONN.D_N	
		2	DGND	
		3	USBSS2_CONN.D_P	
		4	USBSS2_VBUS	
		5	USBSS2_CONN.TX_N	
		6	USBSS2_CONN.TX_P	
		7	USBSS2_CONN.RX_N	
		8	USBSS2_CONN.RX_P	
		9	DGND	

3.3.10 USB Connector (X10)

	Function		Description	
	Connector Type		MR11WS08_0009_AN1_E1AP	
	Mating Connector		MP11ZS08 2007 AN1 Z1AS	
	Pinout	Pin	Description	
		1	USBSS0_CONN.D_N	
		2	DGND	
		3	USBSS0_CONN.D_P	
		4	USBSS0_VBUS	
		5	USBSS0_CONN.TX_N	
		6	USBSS0_CONN.TX_P	
		7	USBSS0_CONN.RX_N	
		8	USBSS0_CONN.RX_P	
		9	DGND	

3.3.11 Low-Speed Connector (X11)

	Function	Description			
	Connector Type	UR01W18-F042P-BK2-E1AA			
	Mating Connector	UP01L18 M042C BK2 Z1ZB			
	Pinout	Pin	Description	Pin	Description
		1*	RS422_CH0.RX_P	22	RECOVERY_ISO_N
		2*	RS422_CH0.RX_N	23	DGND
		3*	RS422_CH0.TX_N	24	DIGITAL_IO_CH7
		4*	RS422_CH0.TX_P	25	DIGITAL_IO_CH6
		5	DGND	26	DIGITAL_IO_CH5
		6*	RS422_CH1.RX_P	27	DIGITAL_IO_CH4
		7*	RS422_CH1.RX_N	28	DGND
		8*	RS422_CH1.TX_N	29*	CAN3_CONN.D_N
		9*	RS422_CH1.TX_P	30*	CAN3_CONN.D_P
		10*	CAN0_CONN.D_P	31	DGND
		11*	CAN0_CONN.D_N	32*	CAN2_CONN.D_N
		12	DGND	33*	CAN2_CONN.D_P
		13*	CAN1_CONN.D_P	34*	RS422_CH2.RX_N
		14*	CAN1_CONN.D_N	35*	RS422_CH2.RX_P
		15	DGND	36*	RS422_CH2.TX_P
		16	DIGITAL_IO_CH0	37*	RS422_CH2.TX_N
		17	DIGITAL_IO_CH1	38	DGND
		18	DIGITAL_IO_CH2	39*	RS422_CH3.TX_P
		19	DIGITAL_IO_CH3	40*	RS422_CH3.TX_N
		20	DGND	41*	RS422_CH3.RX_N
		21	RESET_ISO_N	42*	RS422_CH3.RX_P

3.3.12 Video Connectors (X12, X13, X14)

	Video connector pinouts vary depending on your specific unit configuration. GMSL2 Camera Input, Analog Video Input, 3G-SDI input, 3G-SDI output, GNSS antenna connection are some examples. For the correct pinout diagram for your device, please contact our support team at support@forecr.io
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4. Software Information

4.1 Installation

The JetPack-7.x installation guide can be found [here](#).

5. Connectivity

5.1 General Purpose Input/Output (GPIO)

MODULE PIN NUMBER	I/O NAME	MODULE PIN NAME	TYPE	DESCRIPTION
B8	MGBE0_PWR_EN	GPIO11	OUTPUT	10G Channel 0 power enable.
G7	MGBE1_PWR_EN	GPIO13	OUTPUT	10G Channel 1 power enable.
L15	MGBE2_PWR_EN	GPIO14	OUTPUT	10G Channel 2 power enable.
A7	MGBE3_PWR_EN	GPIO29	OUTPUT	10G Channel 3 power enable.
F5	XFI0_INT_N	I2S2_DOUT	INPUT	Active-low interrupt signal for 10G Channel 0 PHY.
C60	XFI0_RST_N	I2S3_FS	OUTPUT	Active-low hardware reset signal for 10G Channel 0 PHY.
H51	XFI0.MDC	GPIO26/XFI0_MDC	OUTPUT	10G Channel 0 PHY MDC signal.
K49	XFI0.MDIO	GPIO25/XFI0_MDIO	BIDIRECTIONAL	10G Channel 0 PHY MDIO signal.
E4	XFI1_INT_N	I2S2_FS	INPUT	Active-low interrupt signal for 10G Channel 1 PHY.
F6	XFI1_RST_N	I2S2_DIN	OUTPUT	Active-low hardware reset signal for 10G Channel 1 PHY.
K56	XFI1.MDC	GPIO19/XFI1_MDC	OUTPUT	10G Channel 1 PHY MDC signal.
C54	XFI1.MDIO	GPIO33/XFI1_MDIO	BIDIRECTIONAL	10G Channel 1 PHY MDIO signal.
B62	XFI2_INT_N	GPIO8	INPUT	Active-low interrupt signal for 10G Channel 2 PHY.
C59	XFI2_RST_N	I2S3_SCLK	OUTPUT	Active-low hardware reset signal for 10G Channel 2 PHY.
D54	XFI2.MDC	GPIO03/XFI2_MDC	OUTPUT	10G Channel 2 PHY MDC signal.
J51	XFI2.MDIO	GPIO24/XFI3_MDIO	BIDIRECTIONAL	10G Channel 2 PHY MDIO signal.
A58	XFI3_INT_N	GPIO20	INPUT	Active-low interrupt signal for 10G Channel 3 PHY.
C61	XFI3_RST_N	GPIO9	OUTPUT	Active-low hardware reset signal for 10G Channel 3 PHY.
K52	XFI3.MDC	GPIO70/XFI3_MDC	OUTPUT	10G Channel 3 PHY MDC signal.
K51	XFI3.MDIO	GPIO69/XFI3_MDIO	BIDIRECTIONAL	10G Channel 3 PHY MDIO signal.

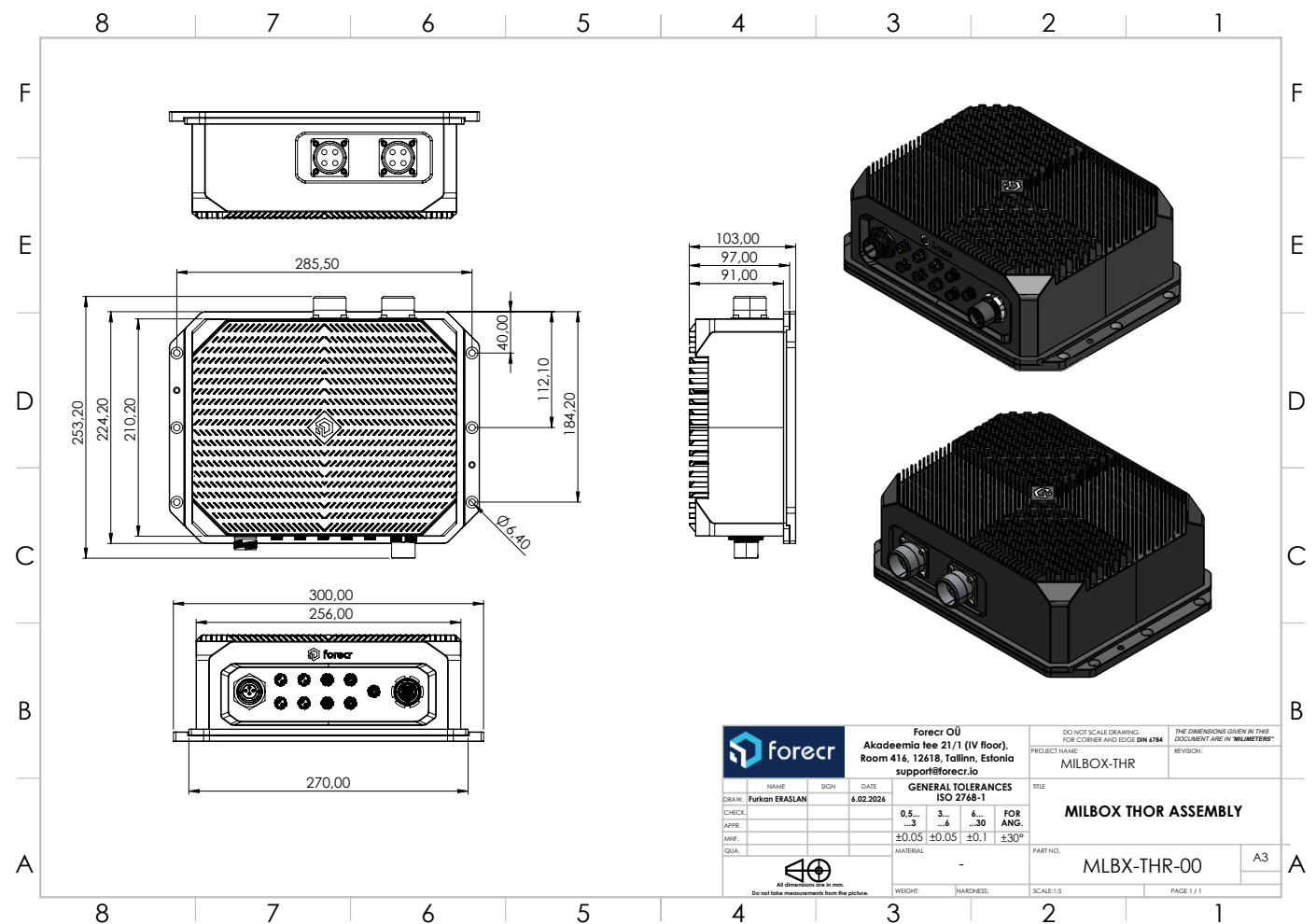
J7	TPM_GPIO_LP	GPIO65	OUTPUT	TPM low power mode control signal.
G6	TPM_GPIO_PP	GPIO49	OUTPUT	TPM physical presence detection signal.
H5	TPM_SPI_RST	GPIO59	OUTPUT	TPM hardware reset signal.
J5	TPM_SPI_PIRQ	GPIO63	INPUT	TPM programmable interrupt request signal.
C18	HDMI1_HPD	HPD1	INPUT	Hot Plug Detect input signal for HDMI Port 1.
A19	HDMI2_HPD	HPD2	INPUT	Hot Plug Detect input signal for HDMI Port 2.
L49	GPIO179_5V0_HDMI_EN	I2S7_LRCK	OUTPUT	HDMI SDI-Out enable signal.
L50	GPIO35_5V0_HDMI_EN	I2S7_SCLK	OUTPUT	HDMI port 1 and port 2 enable signal.
F54	GPIO22_USB_VBUS_EN0	GPIO22	OUTPUT	Connect to enable and overcurrent pins of load switch for Recovery USB.
G55	GPIO23_USB_VBUS_EN0	GPIO23	OUTPUT	Connect to enable and overcurrent pins of load switch for Host USB ports.
J59	IMU_TEMP_INT0	I2S3_DIN	INPUT	6-Axis IMU and temperature sensor interrupt 0.
K59	IMU_TEMP_INT1	I2S3_DOUT	INPUT	6-Axis IMU and temperature sensor interrupt 1.
B58	PWRMON_ALERT_N	GPIO20	INPUT	Power monitor active low alert input.
J54	CAM0_MCLK	MCLK02	OUTPUT	Camera 0 reference clock (1.8V Level)
C4	CAM0_PWDN	GPIO47	OUTPUT	Camera 0 power down (1.8V Level)
H53	CAM1_MCLK	MCLK03	OUTPUT	Camera 1 reference clock (1.8V Level)
F10	CAM1_PWDN	GPIO15	OUTPUT	Camera 1 power down (1.8V Level)
H55	CAM2_MCLK	MCLK04	OUTPUT	Camera 2 reference clock (1.8V Level)
E10	CAM_VDD_SYS_EN	GPIO12	OUTPUT	CAM power enable.
A62	CAM_FRSYNC1	GPIO17	OUTPUT	Camera frame synchronization signal for multi-camera timing alignment.
L5	CAM0_RST	UART4_TX	OUTPUT	Camera 0 reset.
F9	CAM1_RST	GPIO16	OUTPUT	Camera 1 reset.
E61	CAM_INT1	SPI2_CLK	INPUT	Camera 1 interrupt.
D62	CAM_INT2	SPI2_MISO	INPUT	Camera 2 interrupt.
F60	CAM_INT3	SPI2_MOSI	INPUT	Camera 3 interrupt.
D60	CAM_INT4	SPI2_CS0_N	INPUT	Camera 4 interrupt.
A8	PCIE_WAKE_N	PEX_WAKE_N	INPUT	Wake signal shared by all PCIe interfaces.

6. 3D Model & Mechanical Information

6.1 3D Model

The full 3D models of MILBOX-THR can be found [here](#).

6.2 2D Mechanical Drawing



7. Power Consumption

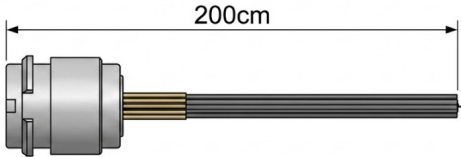
7.1 NVIDIA IGX T5000

Input Voltage: 50V

All CPU and GPU cores are %100 loaded.

	Power Up Sequence	Idle	Standby (Suspend mode)	70W	90W	120W	MAXN
Current (A)	1.3	0.87	0.4	2.82	3.01	3.27	3.51
Power (W)	65	43.5	20	141	150.5	163.5	175.5

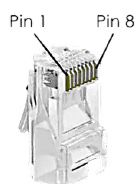
8. Cables

Power Cable (for X1)	
	End 1: D38999/26FC4SN
	Cable Length: 200 cm

Ethernet Cable (for X2, X3, X4, X5)



End 1: MP11ZS08_0008_AN1_Z1AS



End 2: RJ-45 Ethernet Male

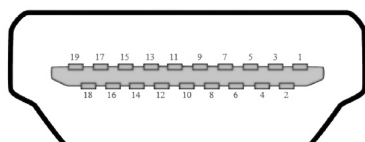


Cable Length: 200 cm

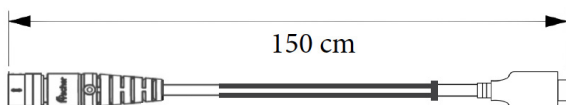
HDMI Cable (for X6, X7)



End 1: MP11ZS08 H019 AN1 Z1MS



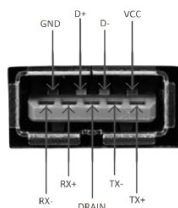
End 2: HDMI Male



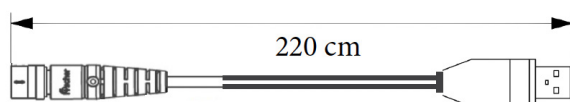
Cable Length: 150 cm

USB 3.2 Cable (for X8, X9, X10)


End 1: MP11ZS08 2007 AN1 Z1AS



End 2: USB 3.2 Type-A Female



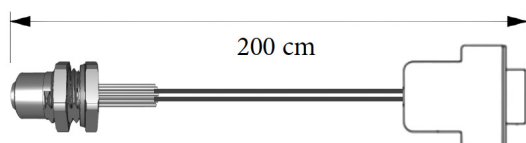
Cable Length: 220 cm

Low Speed Cable (for X11)


End 1: UP01L18 M042C BK2 Z1ZB



End 2: DB9



Cable Length: 200 cm

9. MTBF Prediction

Methodology	Telcordia SR-332 (Parts Count) *Preliminary
Operating Environment	Ground Fixed (GF), Controlled
Ambient Temperature	25 °C
System Failure Rate	2.544 failures / 10 ⁶ hours
MTBF	393,041 hours, 44.87 years

Methodology	Telcordia SR-332 (Parts Count) *Preliminary
Operating Environment	Ground Fixed (GF), Uncontrolled
Ambient Temperature	40°C
System Failure Rate	8.289 failures / 10 ⁶ hours
MTBF	120,640 hours, 13.77 years

10. Video Connector Configurations

The system supports a maximum of 12 coaxial connections, configurable across the following interfaces:

- **GMSL2 Video Input:** Up to 8 channels (mutually exclusive with Analog Video Input)
- **Analog Video Input:** Up to 6 channels (mutually exclusive with GMSL2 Input)
- **3G-SDI Display Output:** Up to 2 channels
- **3G-SDI Video Input:** Up to 4 channels per slot, with an 8-channel maximum (utilizes M.2 slots and reduces available SSD storage)
- **GNSS Module:** Coaxial ports can also serve as antenna inputs for M.2 GNSS cards

Configuration Notes:

- GMSL2 and Analog Video inputs cannot be populated simultaneously.
- Populating M.2 slots for 3G-SDI video capture directly limits total SSD drive capacity.
- The total combined count of all active video streams and GNSS antenna connections cannot exceed 12 coaxial ports.

11. Ordering Information

