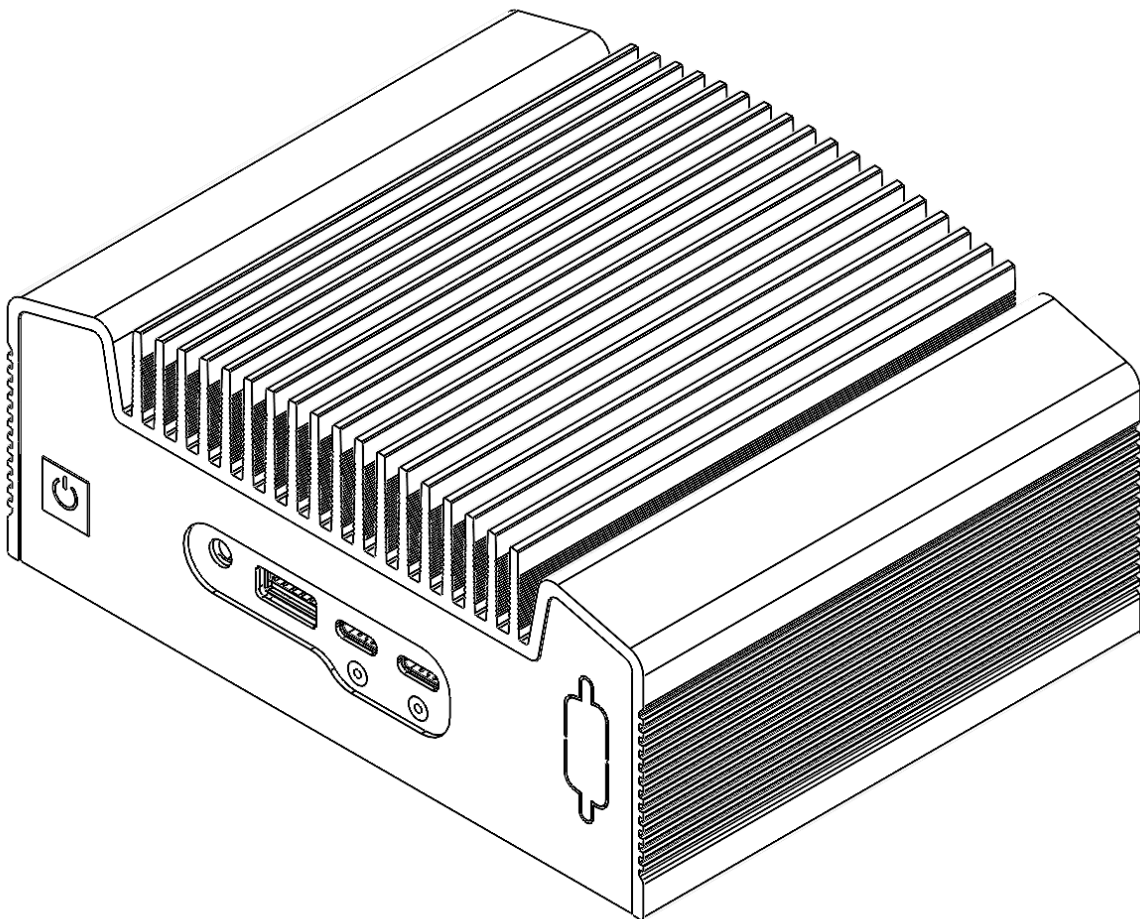


ML100G-56 Product Manual



Revision History

Revision History	Date
Manual Creation Version 1.0	10/23/2024

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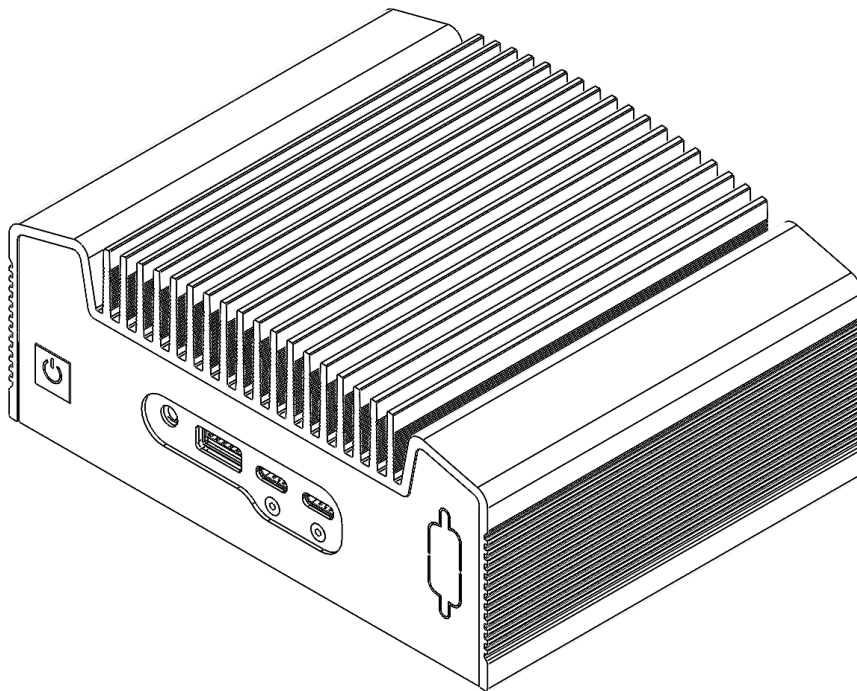
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1 - System Overview

1.1 - System Introduction

The ML100G-56 expands on the ML100G product range, harnessing the enhanced power and capabilities of Intel® Core™ Ultra 7 and Ultra 5 processors in a low profile fanless system built for the challenges of the IoT edge. With a 0 to 50°C operating temperature range, and a wealth of configuration options, the ML100G-56 was engineered with versatility in mind.



1.2 - Accessories

If you purchased additional items such as mounting brackets, power supplies or terminal block connectors, they will be located in the system box or within the outer shipping carton.

All drivers and product guides can be found on the product page. For more information on accessories and additional features, visit the ML100G-56 product page at <https://www.onlogic.com/store/ml100g-56/>.

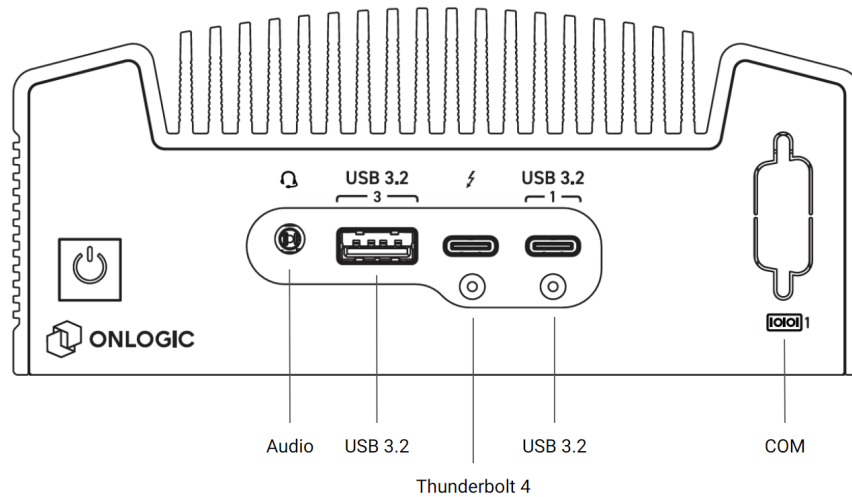
1.3 - Product Specifications

OnLogic ML100G-56	
Processor	Intel® Core™ Ultra 7 Processor 155U Intel Core Ultra 5 Processor 125U
Memory	2x DDR5-5600 SO-DIMM up to 96GB
Integrated Graphics	Intel Arc™ Graphics
Front I/O	1x USB 3.2 Gen 2 (Type-A) 1x USB 4/Thunderbolt 4 (Type-C, 5V/3A, DP2.1) - Supports Locking Connector 1x USB 3.2 Gen2 x2 (Type-C, 5V/3A, DP1.4a) - Supports Locking Connector 1x Audio Jack (MIC-in, Line-out) 1x Power Button (w/ LED indicator)
Back I/O	2x HDMI 2.1 TMDS 2x 2.5 GbE LAN 2x USB3.2 Gen2 (Type-A) 1x DC Jack (12V~24V)
Expansion & Storage	1x M.2 2230 E-key (Wi-Fi) (PCIe x1/ USB 2.0/ CNVi) 1x M.2 2242/2280 M-key (PCIe Gen 4 x 4) 1x M.2 2242 M-key (PCIe Gen 4 x4)
Onboard Headers & Connectors	1x Battery on a cable 1x Serial Header (RS 232/422/485) 2x USB 2.0 (2.00 pitch header)
Special Features	Watchdog timer RTC Intel PTT BIOS option for auto power-on
Optional Add On Module	4G, COM (RS-232/422/485), DIO (x4/x4)
Operating Systems	Windows 11 Pro 64 Bit Windows 10 IoT Enterprise LTSC 2021 Windows 11 IoT Enterprise LTSC 2024 Ubuntu 24.04 Desktop / Server
LAN controller	1x Intel I226LM 1x Intel I226V
Power Input	12V~24V DC-In Jack
Dimensions	142 x 61.5 x 111 mm
Weight	1.25 kg / 2.8 lbs (System Only)
Motherboard Dimensions	104 x 36 x 102 mm
Mounting Options	DIN Wall VESA

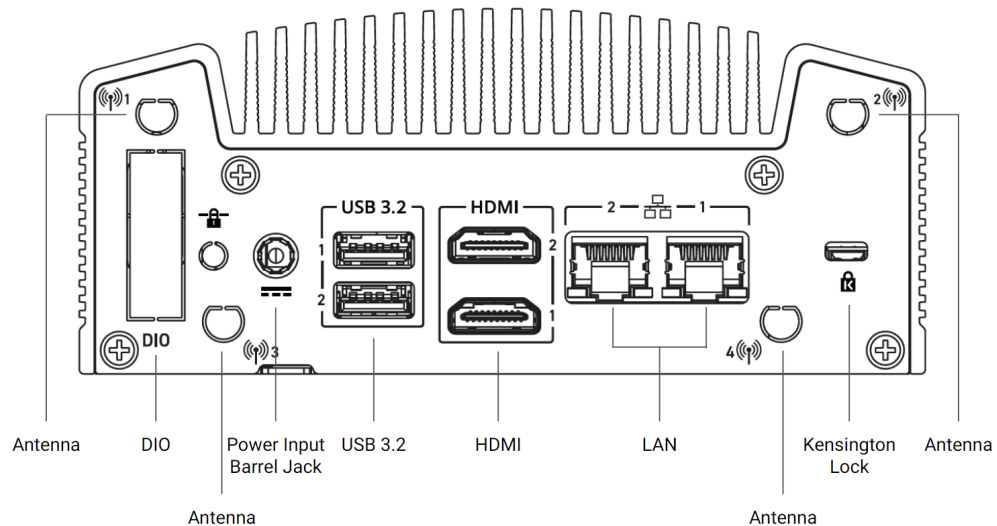
Thermal Standards	System Operating Temperature: 0-50C Storage Temperature: -10-85C Operating Humidity: 0% - 90%
Extra Chassis Features	4 Antenna holes
Radio Specifications when equipped with INT-9260 Wifi/BT (device for indoor use)	
Frequency Bands	2.4GHz and 5GHz bands
Operating Frequency	2400 - 2485 MHz 5150 - 5250 MHz, 5250 - 5350 MHz 5470 - 5725 MHz, 5725 - 5878 MHz
Channel spacing / Bandwidth	2.4GHz: 802.11b/g/n; 5 MHz / BT: 1MHz Bandwidth: 20 MHz / 40 MHz 5 GHz: 802.11a/n/ac: 20, 40, 80, 160 MHz
RF output power	20dBm (2400-2485 MHz) IEEE 802.11b/g/n & BT 10dBm (2400-2485 MHz) BLE 23dBm (5150-5725 MHz) IEEE 802.11a/n/ac 13.98 dBm (5725-5875MHz) IEEE 802.11a/n/ac
Type of Modulation	2.4GHz: DSSS/OFDM/FHSS 5 GHz: OFDM
Antenna Specifications	ANT200 - PIFA type with 2dBi/2dBi gain on 2.4 & 5 GHz
Modes of operation	Duplex (Tx/Rx)
Duty cycle (access protocol)	As In: IEEE 802.11 a/b/g/n/ac

1.4 - Exterior Features and Dimensions

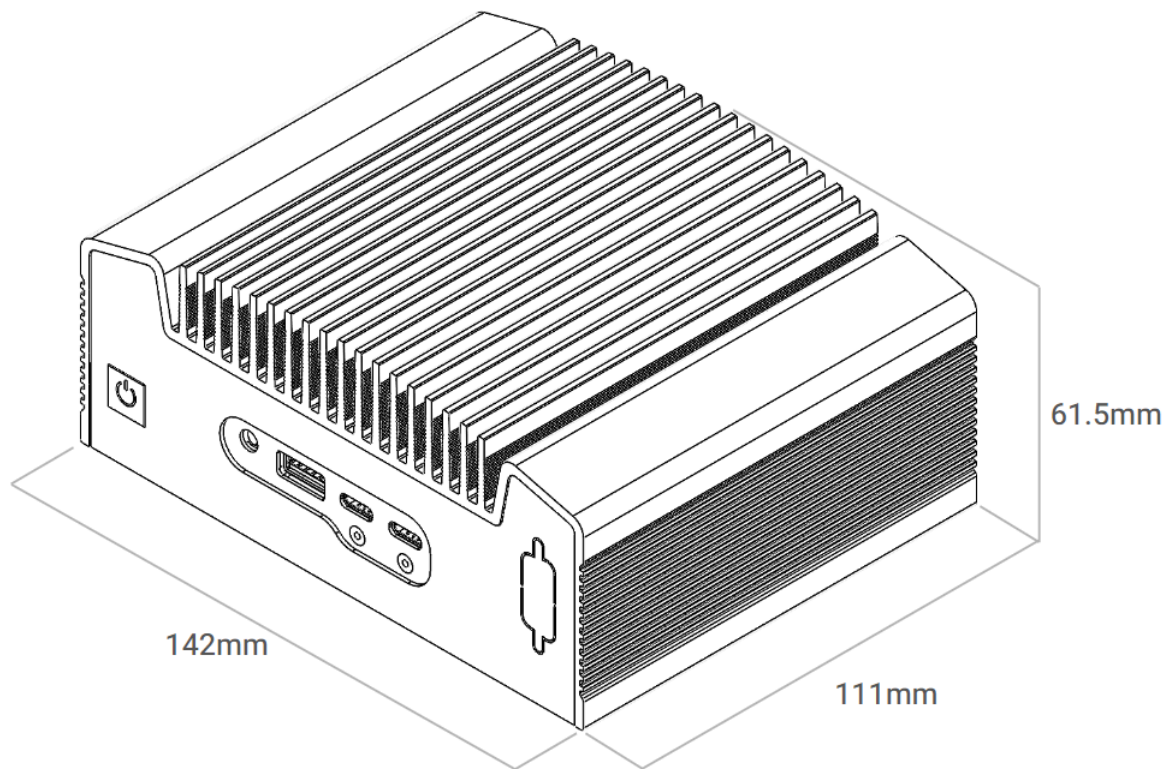
1.4.1 - Front I/O



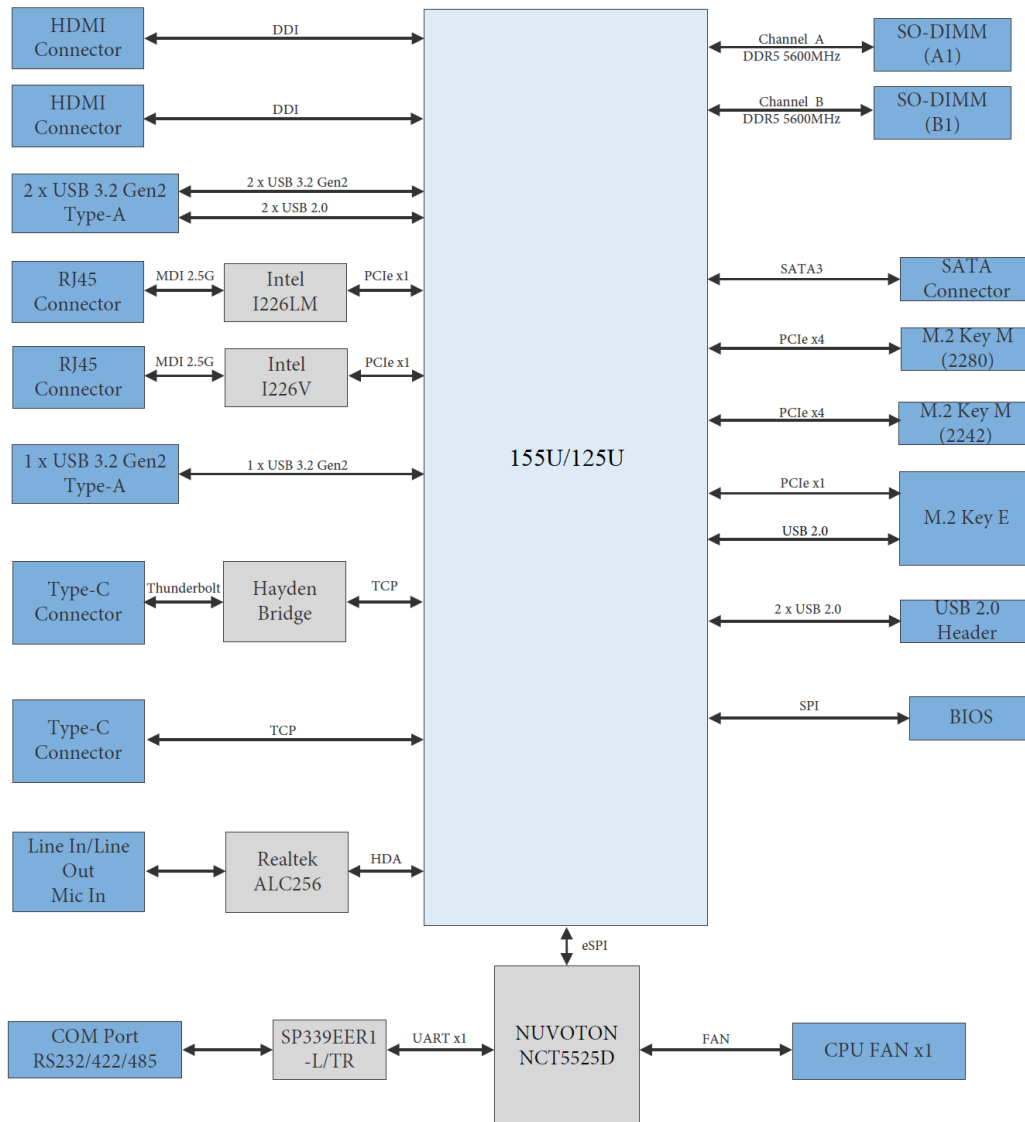
1.4.2 - Back I/O



1.4.3 - ML100G-56 Dimensions



1.5 - System Block Diagram



2 - I/O Definitions

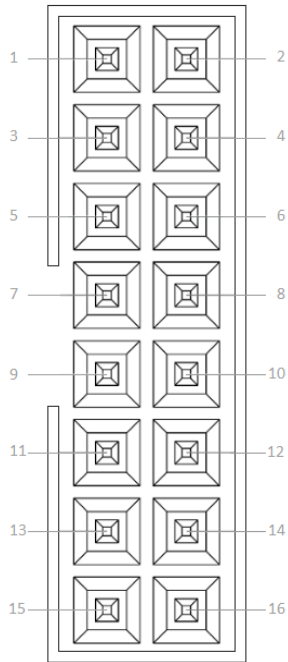
2.1 - Front I/O definition

Power button / Power LED

The front power button can be used to turn on and off the system. The power button is a momentary contact button with a blue LED backlight used to display the status of the system. A solid blue light indicates that the system is powered in the S0 state. The LED is off in S4 and deeper states.

2.2 - Rear I/O definition

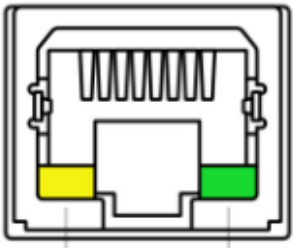
DIO (optional)

		Pin	Function	Pin	Function
1	2	1	DI 3	2	NC
3	4	3	DI 2	4	NC
5	6	5	GND	6	NC
7	8	7	DI 1	8	DO_3
9	10	9	DI_0	10	DO_2
11	12	11	NC	12	GND
13	14	13	NC	14	DO_1
15	16	15	NC	16	DO_0

The ML100G-56 supports an optional Isolated Digital I/O add-in card (OnLogic ADP120 DIO). This option allows for interfacing with digital logic applications. For a complete explanation of features, operating voltages, and safety information, please refer to the DIO expansion manual on the OnLogic support site - <https://support.onlogic.com/documentation/adp120-dio/>.

LAN LED

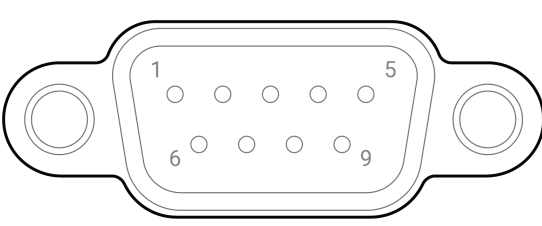
The LAN ports on ML100G-56 support up to 2.5Gbps link speeds over standard shielded CAT5e or CAT6 cables. The connector is the industry standard RJ45 connector. The LAN link state is shown by the two LEDs enclosed in the port. The description is included below.

	LED	Color	State	Function
	Link	-	Off	LAN link is not established
		-	On	LAN link is established
			Blinking	LAN activity occurring
	Speed	-	Off	10 Mbps data rate
		Orange	On	100 Mbps/ 1 Gbps data rate
		Green	On	2.5 Gbps data rate

LAN activity light description

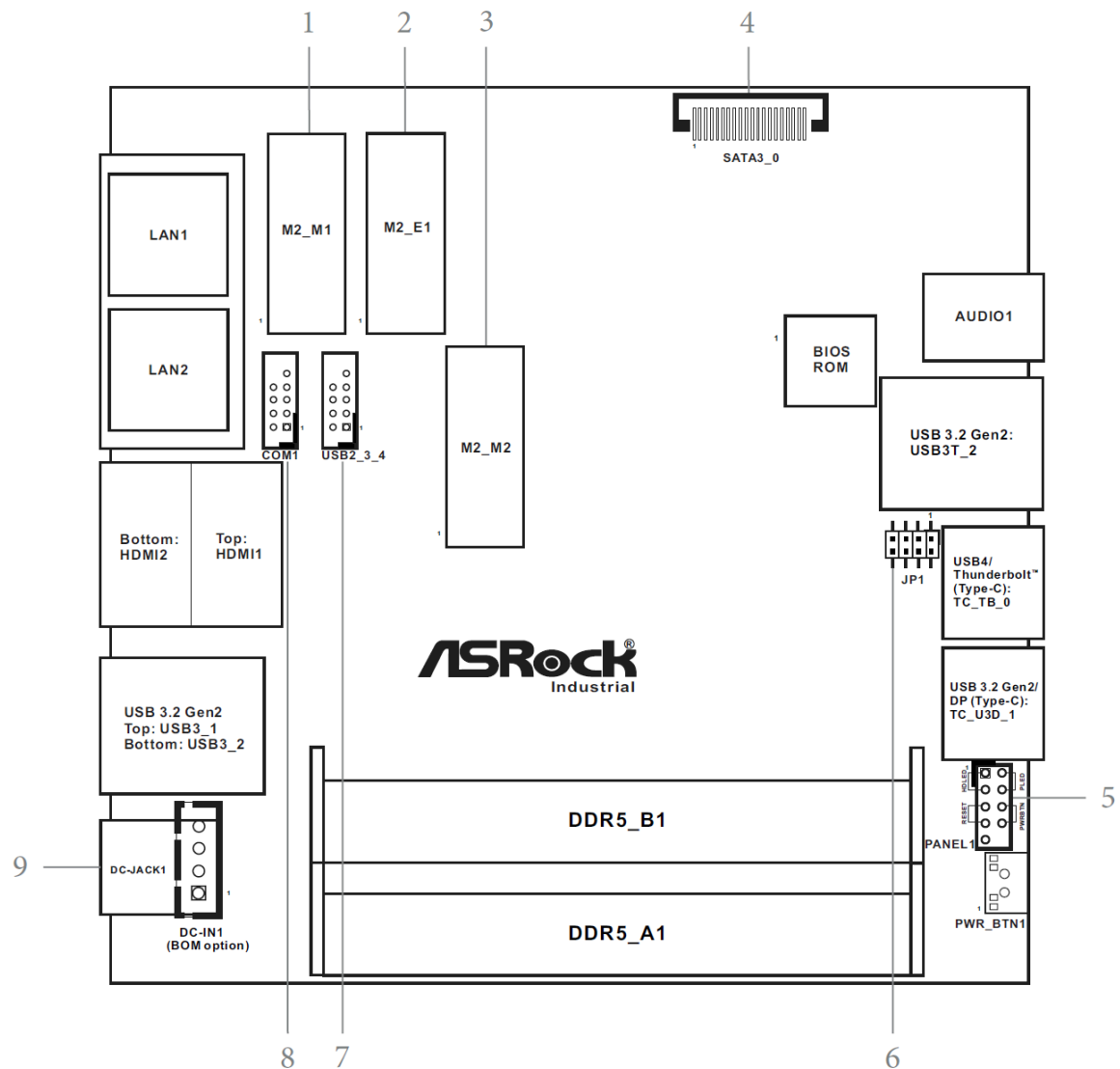
COM DB9 option

The serial port supports RS-232, RS-422, and RS-485 configurations.

	Pin	RS-232	RS-422	RS-485
	1	DCD	TX-	TX-/RX-
	2	RX	TX+	TX+/RX+
	3	TX	RX+	NC
	4	DTR	RX-	NC
	5	GND	NC	NC
	6	DSR	NC	NC
	7	RTS	NC	NC
	8	CTS	NC	NC
	9	NC	NC	NC

COM DB9 pinout

2.3 - Motherboard Connectors



1	M.2 2242/2280 M-key (PCIe Gen 4 x 4)
2	M.2 2230 E-key (Wi-Fi) (PCIe x1/ USB 2.0/ CNVi)
3	M.2 2242 M-key (PCIe Gen 4 x4)
4	SATA3 Port
5	System Panel Header
6	JP1 Header
7	USB2 Header
8	COM Port Header
9	DC Jack (12V~24V)

M.2 M-Key

Two M.2 M-Key ports are present on the ML100G-56 motherboard to allow support for M-Key form-factor expansion cards. Form-factors 2242/2280 are supported on the primary slot, and the secondary slot supports 2242 form-factor, both M-Key ports are PCIe Gen 4 x 4.

A full pinout table for this expansion slot is provided in **Appendix B**

M.2 E-Key

An M.2 E-Key port is present on the ML100G-56 motherboard to allow support for E-Key form-factor wireless expansion cards. Only 2230 form-factor cards are supported. The E-Key connector supports PCIe x1, USB 2.0, and CNVi. A full pinout table for this expansion slot is provided in **Appendix B**.

SO-DIMM

The ML100G-56 has two onboard DDR5 SO-DIMM slots with the following specifications:

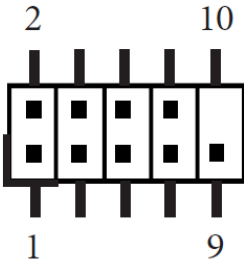
- Maximum Capacity: DDR5-5600 up to 96GB (48GB per DIMM)
- Channel configuration: Dual Channels

BIOS EEPROM

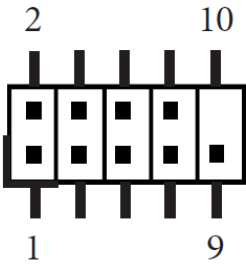
If the BIOS needs to be updated, please refer to the following steps for flashing the EEPROM.

1. Save the BIOS ROM file in an USB thumb drive (FAT32 format)
2. Enter BIOS Setup Utility by pressing F2 or DEL during boot
3. Navigate to Advanced -> Instant Flash
4. Choose the ROM file you'd like to update
5. Follow the instructions on the screen
6. When the programming is completed, press Enter to reboot the system

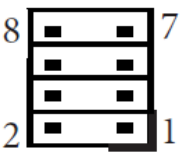
USB 2.0 Header

	1	USB_PWR	USB_PWR	2
	3	-A	-B	4
	5	+A	+B	6
	7	GND	GND	8
	9	Dummy		10

COM Port Header (RS-232/422/485)

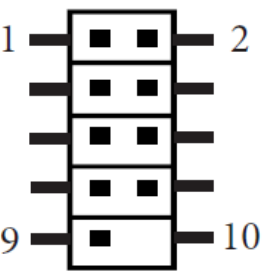
	1	DCD#	RXD	2
	3	TXD	DTR#	4
	5	GND	DSR#	6
	7	RTS#	CTS#	8
	9	Dummy		10

JP1 Header

	Setting	Description
	1-3	Reserved JP for AT (Default)
	6-8	Reserved JP for Clear CMOS (Default)
	1-2	SIO AT Mode
	4-6	Clear CMOS
	5-7	DACC* (Default)

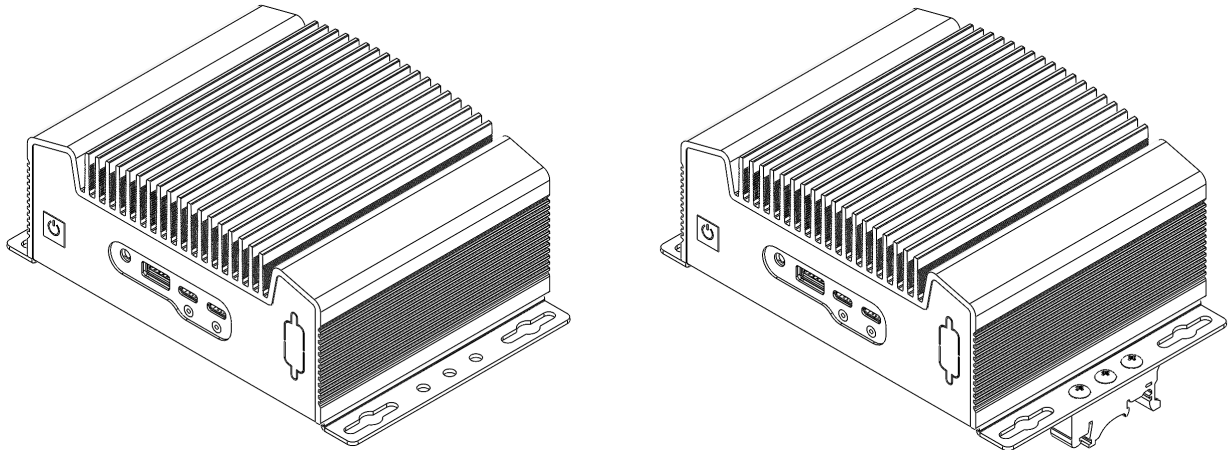
* Auto clear CMOS when system boot improperly

System Panel Header

	1	HDD LED+	PWR LED+	2
	3	HDD LED-	PWR LED-	4
	5	GND	PWRBTN#	6
	7	RESET#	GND	8
	9	Dummy		10

3 - Mounting Instructions

3.1 - Wall Mount & DIN Rail Mounting



The ML100G-56 has optional Wall Mount brackets (SKU : MTW101) and DIN Rail mounting brackets (SKU : MTW101-K) available for purchase.

For Wall Mounting, follow steps below :

Step 1: Align the four screw holes on the bottom of the system with the respective holes on the mounting brackets.

Step 2: Attach wall mounting brackets (MTW101) to the system using the supplied M3 screws (M3X0.5 Flathead Screw, 4mm Long).

Step 3 : Install system to surface using keyhole slots on wall mount brackets and appropriate hardware for the surface (not provided).

For DIN Rail Mounting, follow the below steps:

Step 1: Follow steps 1-2 from the Wall Mounting section.

Step 2: Align the mounting holes of the din clip bracket to the three mounting holes on the wall mount bracket.

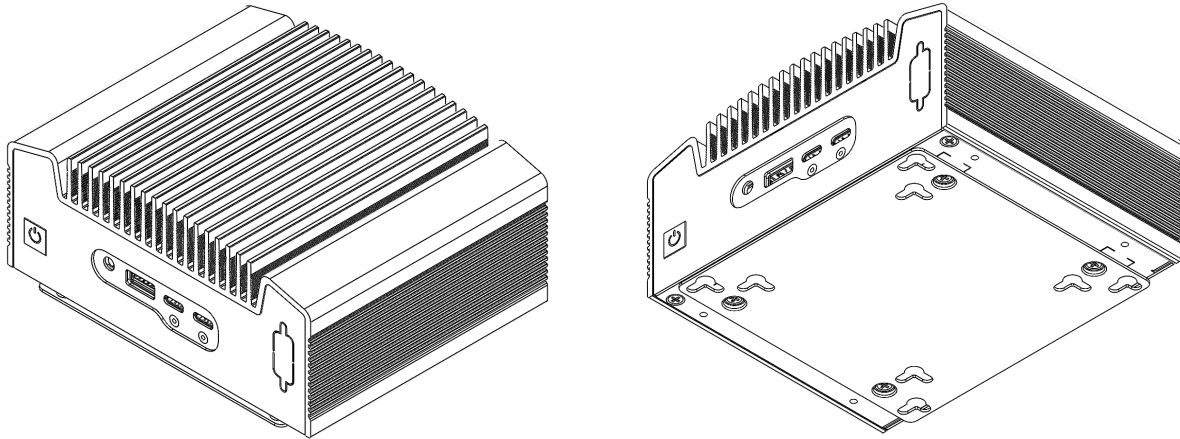
Step 3: Install the din clips to the wall mount brackets using supplied screws and a Phillips head screwdriver.

Step 6: Mount system onto the DIN rail.

Note: The mounting brackets are required to support 3x the hanging weight of the system (14.82lbs / 6.72 kgs). The mating surface and hardware must be capable of supporting the same load.

3.2 - VESA Mounting

The ML100G-56 has an optional VESA mounting bracket (SKU : MTV100-K) available for purchase. Follow the steps below for mounting.



Step 1: Align the four screw holes on the bottom of the system with the respective holes on the mounting bracket.

Step 2: Attach VESA Mount Plate, to the system using the supplied M3 screws (M3X0.5 Flathead Screw, 4mm Long)

Step 3: Install the system to VESA 75 or VESA 100 mounting pattern using provided VESA Mount screws.

The mounting bracket systems are required to secure 3x the hanging weight of the computer system (14.82lbs / 6.72 kgs). The mating substrate must be capable of maintaining the same rating.

4 - Power Management

4.1 - Wake-Up Events

The ML100G-56 supports multiple power states. The wake-up events can be configured in the BIOS. This section describes the supported power management functions and gives information on protection circuitry for power adapters.

Wake-Up Event	From ACPI State
Power Button	Deep S5, S5, S3
LAN	S5, S3
USB	S3
RTC Wake set by BIOS	Deep S5, S5, S3
RTC Wake set by OS	S3

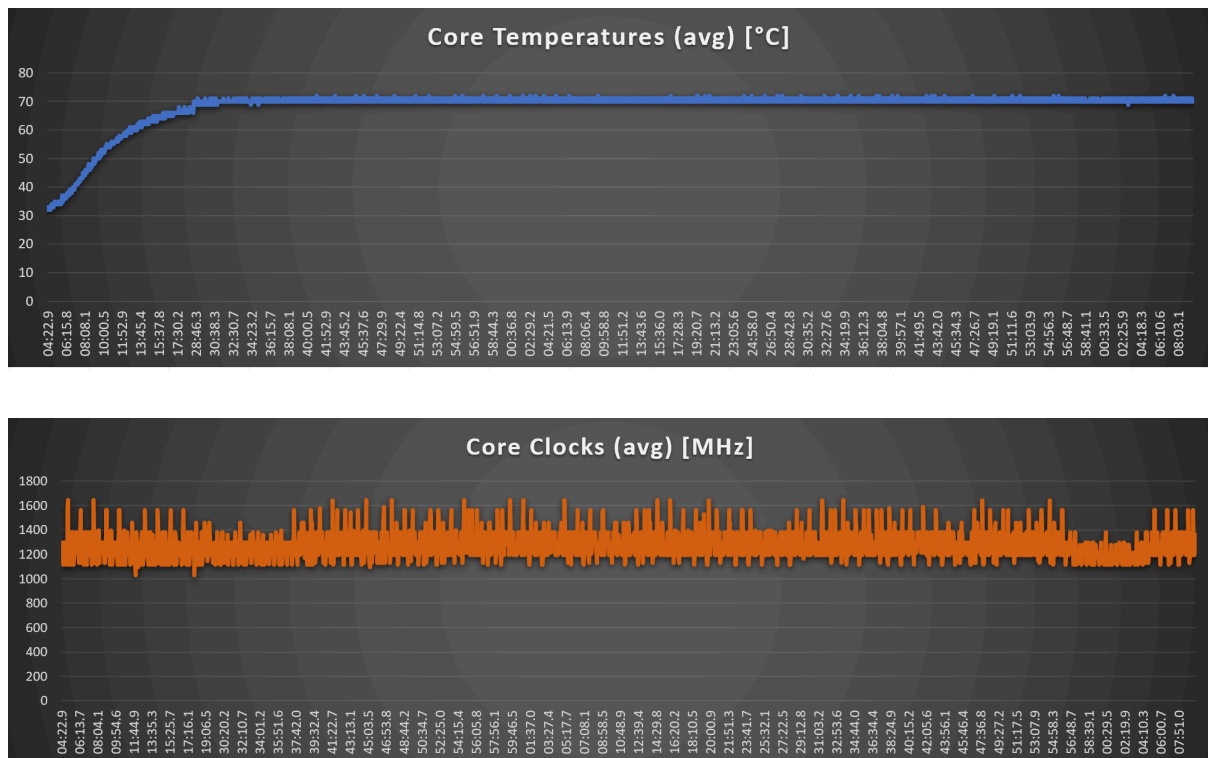
5 - Appendices

5.1 - Appendix A: System Thermal Results

5.1.1 Test Conditions

- Temperature: 50°C soaking for minimum of 2hrs
- Conditions:
 - DC Load 1 Amps on 1x Back Panel USB port
 - DC Load 1 Amps on 1x Front panel USB port
 - Application: BurnIn Stress 7 test, Furmark, H/W monitoring

5.1.2 Test Results



5.1.3 Test Result Summary

The ML100G-56 with Intel Core Ultra 7 processor 155U operated upwards of 80% of its rated base clock speeds on the CPU cores while sustaining significant processor, memory and storage stress loads in an ambient temperature of 50°C.

5.2 - Appendix B: Expansion port pinout

5.2.1 - M.2 M-Key

Pin	Function	Function	Pin
1	GND	3.3 V	2
3	GND	3.3 V	4
5	NC	NC	6
7	NC	NC	8
9	GND	LED#	10
11	NC	3.3 V	12
13	NC	3.3 V	14
15	GND	3.3 V	16
17	NC	3.3 V	18
19	NC	NC	20
21	GND	NC	22
23	NC	NC	24
25	NC	NC	26
27	GND	NC	28
29	NC	NC	30
31	NC	NC	32
33	GND	USB_D+	34
35	NC	USB_D-	36
37	NC	NC	38
39	GND	SMB_CLK	40
41	PERn0/SATA-B+	SMB_DATA	42
43	PERp0/SATA-B-	NC	44
45	GND	NC	46
47	PETn0/SATA-A-	NC	48
49	PETp0/SATA-A+	PERST#	50
51	GND	CLKREQ#	52
53	REFCLKn	WAKE#	54
55	REFCLKp	NC	56
57	GND	NC	58
CONNECTOR Key M		CONNECTOR Key M	
CONNECTOR Key M		CONNECTOR Key M	

	CONNECTOR Key M	CONNECTOR Key M	
	CONNECTOR Key M	CONNECTOR Key M	
67	NC	SUSCLK	68
69	PEDET	3.3 V	70
71	GND	3.3 V	72
73	GND	3.3 V	74
75	GND		

5.2.2 - M.2 E-Key

Pin	Function	Function	Pin
1	GND	3.3 V	2
3	USB_D+	3.3 V	4
5	USB_D-	NC	6
7	GND	NC	8
9	CNV_WGR_D1-	CNV_RF_RESET#	10
11	CNV_WGR_D1+	NC	12
13	GND	MODEM_CLKREQ	14
15	CNV_WGR_D0-	NC	16
17	CNV_WGR_D0+	GND	18
19	GND	NC	20
21	CNV_WGR_CLK-	CNV_BRI_RSP	22
23	CNV_WGR_CLK+	KEY	
	KEY	KEY	
	KEY	KEY	
	KEY	KEY	
	KEY	CNV_BGI_DT	32
33	GND	CNV_RGI_RSP	34
35	PETp0	CNV_BRI_DT	36
37	PETn0	NC	38
39	GND	NC	40
41	PERp0	NC	42
43	PERn0	NC	44
45	GND	NC	46
47	REFCLKp0	NC	48
49	REFCLKn0	SUSCLK	50

51	GND	PERST0#	52
53	CLKREQ0#	W_DISABLE2#	54
55	WAKE0#	W_DISABLE1#	56
57	GND	SMB_DATA	58
59	CNV_WT_D1-	SMB_CLK	60
61	CNV_WT_D1+	NC	62
63	GND	RESERVED	64
65	CNV_WT_D0-	NC	66
67	CNV_WT_D0+	NC	68
69	GND	NC	70
71	CNV_WT_CLK-	3.3V	72
73	CNV_WT_CLK+	3.3V	74
75	GND		

5.3 - Appendix C: Regulatory Compliance

5.3.1 - CE

The computer system was evaluated for medical, IT equipment, automotive, and maritime EMC standards as a class A device. The computer complies with the relevant IT equipment directives for the CE mark. Modification of the system may void the certifications. Testing includes: EN 55032, EN 55035, IEC 60601-1, EN 62368-1, EN 60950-1, and IEC 60945. Product safety was evaluated to IEC 62368-1 and IEC 60950-1.

5.3.2 - FCC Statement

This device complies with part 15 of the FCC rules as a Class A device. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

5.3.3 - ISED

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-003(A) / NMB-003(A)

5.3.4 - UKCA

The computer system was evaluated for medical, IT equipment, automotive, maritime and railway EMC standards as a class A device. The computer complies with the relevant IT equipment directives for the UKCA mark.

5.4 - Appendix D: Safety Precautions, Safeguards & Information

Do not open and modify the device! The device complies with various national and international Safety, EMC and Environmental requirements per various standards.

Modification of the device may void certifications, warranty and/or cause possible injury to the user.

5.4.1 - Safe use and installation instructions

1. Care must be taken handling the device to prevent injury to self or possibility of damaging the unit.
2. Read the entire manual before using the product.
3. Install the device securely per users manual instructions.
4. To protect against excessive RF exposure, maintain at least 20cm from any user and the RF antennas. Only use provided dual band antennas of 2dBi/2dBi gain.
5. Wall or ceiling mounting device requires use of OnLogic mounting plate or bracket.
6. Use M3x0.5mm Flat Head screws to attach mounting plate or mounting brackets to threaded holes on bottom or rear of chassis. Screws should be a minimum length of 4mm. Add 1mm of screw length for every mm of additional thickness of plate or bracket beyond 1.5mm.
7. **Caution, Hot Surface!** It is normal for the unit to heat up and be hot to touch. **Do not touch** the heatsink area or enclosure during operation and 30 minutes after shutdown allowing the unit to cool down.
8. Ambient operating temperature must be between 0 °C to 50 °C with a non-condensing relative humidity of 10-85%.
9. The device can be stored at temperatures between -10 °C to 85 °C. Note: Unit must be stabilized within operating temperature before use, minimum 3HR.
10. Keep the device away from liquids and flammable materials. Not to be installed in a hazardous environment.
11. Do not clean the device with liquids. The chassis can be cleaned with a dry cloth or duster only. To prevent injury to self and/or damage to the device the unit must be powered down and all connecting power and other peripherals shall be disconnected prior to cleaning.
12. Allow adequate space around all sides of the device for proper cooling and to not exceed its maximum operating temperature limit. If the device is mounted to a vertical surface then recommended device orientation is such that heatsink fins allow air to rise unobstructed. Alternative orientations may result in reduced operational temperature range.
13. This device is intended for indoor operation only.
14. **Caution, Risk of Electric Shock!** Unit is powered by low voltage DC (Direct Current) only! Do not connect AC (Alternating Current) into the device!
15. To power the device use only UL ITE Listed external power supplies with DC output of 12-24VDC, see specs for details.
16. Wiring methods used for the connection of the equipment to the mains supply shall be in accordance with the National Electrical Code, NFPA 70, and the Canadian Electrical Code,



Part I, CSA C22.1.

17. Allow ample space for terminal block wiring connections such that the wires do not bend and are protected from accidental damage.
18. Install the device only with shielded network cables.
19. The installer should be experienced in aftermarket installation and familiar with general practices for installing electronics.
20. Radio device is not intended for emergency service use.
21. Service and repair of the device must be done by qualified service personnel. This includes, but is not limited to, replacement of the CMOS battery. Replacement CMOS battery must be of the same type as the original.
22. Proper disposal of CMOS battery must comply with local governance.
23. Product must only be connected to a certified router, switch or similar network equipment
24. Product is intended for indoor use only.
25. Product cannot be connected to the public network.
26. This equipment is not suitable for use in locations where children are likely to be present.



WARNING: There is danger of explosion if the CMOS battery is replaced incorrectly. Disposal of battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.

5.4.2 - Précautions et guide d'installation

Ne pas ouvrir et modifier l'appareil ! L'appareil est conforme à diverses exigences nationales et internationales en matière de sécurité, de CEM et d'environnement selon diverses normes.

La modification de l'appareil peut annuler les certifications, la garantie et/ou causer des blessures à l'utilisateur.

1. Des précautions doivent être prises lors de la manipulation de l'appareil pour éviter de se blesser ou d'endommager l'appareil.
2. Lisez l'intégralité du manuel avant d'utiliser le produit.
3. Installez l'appareil en toute sécurité selon les instructions du manuel de l'utilisateur.
4. Pour vous protéger contre une exposition RF excessive, maintenez au moins 20 cm de tout utilisateur et des antennes RF. Utilisez uniquement les antennes double bande fournies avec un gain de 2 dBi/2 dBi.
5. Le dispositif de montage mural ou au plafond nécessite l'utilisation d'une plaque ou d'un support de montage. La plaque ou le support doit être en métal et avoir une épaisseur minimale de 1 mm.
6. Utilisez des vis à tête plate M4x0,5 mm pour fixer la plaque de montage ou les supports de montage aux trous filetés au bas ou à l'arrière du châssis. Les vis doivent avoir une longueur minimale de 4 mm. Ajoutez 1 mm de longueur de vis pour chaque mm d'épaisseur supplémentaire de plaque ou de support au-delà de 1,5 mm.
7. **Attention surface chaude! Il est normal que l'appareil chauffe et soit chaud au toucher. Ne touchez pas la zone du dissipateur thermique ou le boîtier pendant le fonctionnement et 30 minutes après l'arrêt pour permettre à l'unité de refroidir.**
8. La température ambiante de fonctionnement doit être comprise entre 0 °C et 50 °C avec une humidité relative sans condensation de 10 à 85 %.
9. L'appareil peut être stocké à des températures comprises entre -10 °C et 85 °C. Remarque : L'unité doit être stabilisée à la température de fonctionnement avant utilisation, minimum 3 heures.
10. Gardez l'appareil à l'écart des liquides et des matériaux inflammables. Ne pas installer dans un environnement dangereux.



11. Ne nettoyez pas l'appareil avec des liquides. Le châssis peut être nettoyé uniquement avec un chiffon sec ou un plumeau. Pour éviter de se blesser et/ou d'endommager l'appareil, l'appareil doit être éteint et toutes les alimentations et autres périphériques doivent être déconnectés avant le nettoyage.
12. Prévoyez un espace suffisant autour de tous les côtés de l'appareil pour un refroidissement correct et pour ne pas dépasser sa limite de température de fonctionnement maximale. Si l'appareil est monté sur une surface verticale, l'orientation recommandée de l'appareil est telle que les ailettes du dissipateur thermique permettent à l'air de monter sans obstruction. Des orientations alternatives peuvent entraîner une plage de températures de fonctionnement réduite.
13. Cet appareil est destiné à une utilisation en intérieur uniquement.
14. **Attention, risque de choc électrique !** L'unité est alimentée uniquement par une basse tension CC (courant continu) ! Ne connectez pas le courant alternatif (courant alternatif) à l'appareil !
15. Pour alimenter l'appareil, utilisez uniquement des alimentations externes répertoriées UL ITE avec une sortie CC de 12-24 VCC, voir les spécifications pour plus de détails.
16. Les méthodes de câblage utilisées pour le raccordement de l'équipement à l'alimentation secteur doivent être conformes au Code national de l'électricité, NFPA 70, et au Code canadien de l'électricité, Partie I, CSA C22.1.
17. Prévoyez suffisamment d'espace pour les connexions de câblage du bornier afin que les fils ne se plient pas et soient protégés contre les dommages accidentels.
18. Installez l'appareil uniquement avec des câbles réseau blindés.
19. L'installateur doit avoir de l'expérience dans l'installation de pièces de rechange et être familiarisé avec les pratiques générales d'installation de composants électroniques.
20. L'appareil radio n'est pas destiné aux services d'urgence.
21. L'entretien et la réparation de l'appareil doivent être effectués par un personnel qualifié. Cela inclut, mais sans s'y limiter, le remplacement de la batterie CMOS. La batterie CMOS de remplacement doit être du même type que celle d'origine.
22. L'élimination appropriée de la batterie CMOS doit être conforme à la gouvernance locale.
23. Le produit doit uniquement être connecté à un routeur, un commutateur ou un équipement réseau similaire certifié
24. Le produit est destiné à une utilisation en intérieur uniquement.
25. Le produit ne peut pas être connecté au réseau public.
26. Cet équipement n'est pas adapté à une utilisation dans des endroits où des enfants sont susceptibles d'être présents.



ATTENTION: Il existe un risque d'explosion si la pile CMOS n'est pas remplacée correctement. L'élimination de la batterie dans le feu ou dans un four chaud, ou l'écrasement ou le découpage mécanique d'une batterie peut entraîner une explosion.