

# MITSUBISHI ELECTRIC INDUSTRIAL PC MI1002-W, MI1002-W-CL START-UP GUIDE

BCN-P5999-0990-F(2206)NEC Ver.6 Jun. 2022



Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.

## SAFETY PRECAUTIONS

Follow the instructions in this document for the safe use of this product. User's Manual describes hazardous parts of the product, possible hazards, and how to avoid them. Components of the product with possible danger are indicated with a warning label placed on or around them (or, in some cases, by printing the warnings on the computer).

In User's Manual or on warning labels, "Warning" or "Caution!" is used to indicate a degree of danger. These terms are defined as follows:

	<b>Warning</b>	Indicates the potential for death or serious injury.
	<b>Caution!</b>	Indicates there is a risk of burns, other personal injury, or property damage.

Under some circumstances, failure to observe the precautions given under "Caution!" may lead to serious consequences.

Observe the precautions of both levels because they are important for personal and system safety. Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

Precautions and notices against hazards are presented with one of the following three symbols.

	<b>Attention</b>	This symbol indicates the presence of a hazard if the instruction is ignored. An image in the symbol illustrates the hazard type.	Example 
	<b>Prohibited action</b>	This symbol indicates prohibited actions. An image in the symbol illustrates a particular prohibited action.	Example 
	<b>Mandatory action</b>	This symbol indicates mandatory actions. An image in the symbol illustrates a mandatory action to avoid a particular hazard.	Example 

## Symbols used in this manual and on warning labels

### Attention

	Indicates the potential for smoke and/or fire to occur.		Indicates the risk of electric shock.
	Indicates the potential for damage caused by high temperatures.		Indicates there is a risk of explosion that can result in injuries.
	Indicates an attention that cannot be specifically identified. Make sure to follow the instruction.		

### Prohibited actions

	Do not disassemble, repair, or modify this product. Otherwise, an electric shock or fire may be caused.		Do not use this product in places near water or liquids. Otherwise an electric shock or fire may be caused.
	Do not install this product near a fire. Otherwise a fire may be caused.		Do not touch with wet hand. Otherwise, an electric shock may be caused.
	Do not touch this product. Otherwise, an electric shock may be caused.		Indicates a general prohibited action that cannot be specifically identified.

## SAFETY PRECAUTIONS - CONT'D -

**Caution!**

- Do not use this product in an environment where corrosive gas is present.**  
Do not install this product in a place subject to corrosive gases including sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, or ozone. Do not install this product in an environment containing corrosion promoting components such as sodium chloride and sulfur and conductive metal etc. in dust and air. Failure to follow this warning may corrode the printed board in this product, leading to malfunction, smoke emission or fire. If you have any questions, please contact your sales or maintenance representative.
- Remove AC power cable when connecting interface cables.**  
Remove the AC power cable from the outlet or other supply power source when connecting or removing interface cables. Connecting or removing interface cables while the AC power cable is connected to the outlet or other supply power source might result in electric shock.
- Use only the specified interface cable.**  
Use only interface cables provided by MITSUBISHI ELECTRIC CORPORATION and locate a proper device and connector before connecting a cable. Using an unauthorized cable or connecting a cable to an improper destination may cause a short circuit, resulting in a fire. Also, observe the following notes on using and connecting an interface cable.
  - Do not use any damaged cable connector.
  - Do not step on the cable.
  - Do not place any object on the cable.
  - Do not use any damaged cable.
  - Do not use the server with loose cable connections.
 For more information about interface cables, please contact your sales or maintenance representative.
- Secure cables in place.**  
Be sure to secure the power cable and interface cables in place. Incomplete installation causes a loose connection, resulting in smoke or fire.
- Hold the plug part when removing the AC power cable and interface cables.**  
Pull the plug by holding the plug part to disconnect the AC power cable and interface cables. Pulling these cables by holding the cord will cause breakage and might cause fires to occur.

## Notes for Maintenance

**Warning**

- Do not remove the lithium metal battery (button type).**  
A lithium metal battery (button type) is installed in this product. Do not attempt to remove this lithium metal battery (button type). Exposing the battery to flame or water may cause it to catch fire or rupture. If the product does not work normally due to the dead battery, please contact your sales or maintenance representative. Never disassemble or replace the battery by yourself.
- Remove AC power cable when connecting interface cables.**  
Remove the AC power cable from the outlet or other supply power source when connecting or removing interface cables. Connecting or removing interface cables while the AC power cable is connected to the outlet or other supply power source might result in electric shock.

**Caution!**

- Do not touch high temperature parts.**  
Do not touch the chassis and AC power adaptor immediately after using the device. They are hot and might cause burns when touched. Wait at least 30 minutes after turning the power to the main device OFF before installing/removing devices installed in the main unit.
- Secure cables in place.**  
Be sure to secure the power cable and interface cables in place. Incomplete installation causes a loose connection, resulting in smoke or fire.
- Do not use while dust is accumulated on the AC power cable.**  
Do not use this main unit while dust is accumulated on the power cable plug. Long periods of use without cleaning the dust that has accumulated on the power cable plug might result in electric discharge between the plug and pins and causes fires to occur.

**Notes on maintenance**

Please read the manual for each component before maintenance.

**Do not disassemble.**

Please do not disassemble the power supply, battery, optical drives, and disk drives in a manner other than that for which described in this document. Not only does the product not work properly but also there is a risk of electric shock or fire.

## Mandatory actions

	Unplug the power cord of this product. Otherwise, an electric shock or fire may be caused.		Indicates a mandatory action that cannot be specifically identified. Make sure to follow the instruction.
	Make sure equipment is properly grounded.		

## Notations in this manual

	Indicates items that must be observed in handling the hardware.
--	---

## Safety Notes

**General Notes**

**Warning**

- Do not use the product if any smoke, odor, or noise is present.**  
If smoke, an abnormal odor or a sound is generated from the product, immediately turn off the main unit, unplug the power cable from the outlet, and then contact your nearest sales agent or maintenance service company. An electric shock or fire might result if you continue to use the product.
- Do not insert needles or metal objects.**  
Do not remove rubber caps or other covers on this product to insert needles, metal objects, or other foreign objects into openings. Doing so may cause an electric shock, burns, or fire.

**Caution!**

- Keep water or foreign objects away from the product.**  
Do not drop liquids such as water or other foreign objects such as a pin or a paper clip into this product. Failure to follow this warning may cause an electric shock, a fire. If such things accidentally enter the product, immediately turn off the power and disconnect the power plug from the outlet. Do not disassemble the product, and contact your sales representative or a maintenance service company.

## Notes on Power Connections

**Warning**

- Plug the power cord into an outlet that matches the voltage of the unit.**  
Plug the power cord supplied with this product into a 100V outlet in line with the voltage inscribed on the unit. When using this product in a country or region other than Japan, prepare a power cord corresponding to the power supply for the country or region where this product will be used. Failure to use an appropriate power cable may cause a fire.
- Do not hold the power plug with a wet hand.**  
Do not insert/remove the power cable plug with wet hands. Failure to follow this warning may cause an electric shock.
- Secure safety grounding.**  
Connect the 3-pin power plug of the attached AC power cable to a 3-pin outlet. Use the attached conversion plug for the double-pole outlet to connect the earth cable to the earth terminal for the double-pole outlet. Secure grounding for safety (to prevent electric shock) by using the FG cable. Ground the main unit before connecting the power plug. Disconnect the power plug from the power source before disconnecting grounding.

## Caution!

- Plug the power cord into the specified outlet.**  
Use a 3-pin outlet with ground electrode or 2-pin outlet with ground terminal that matches the specified voltage. If you are using a 2-pin outlet with ground terminal, use a 2-pin conversion plug with a ground wire supplied with this product and connect the ground wire securely to the ground terminal of the outlet. Use of an outlet other than that specified may result in fire or electrical leakage.
- Do not use extension cords.**  
Do not install the server in any environment that requires an extension cord. Connecting to a cord that does not conform to the power supply specs of this product causes overheating, resulting in fire.
- Do not connect power cable to overloaded extension cords.**  
The electric current exceeding the rated flow overheats the outlet, which may cause a fire.
- Hold the plug part when removing the AC power cable.**  
Pull the plug by holding the plug part to disconnect the AC power cable. Pulling the AC power cable by holding the cord will cause breakage and might cause fires to occur.
- Secure the AC power cable in place.**  
Be sure to secure the AC power cable in place. Incomplete installation causes a loose connection, resulting in smoke or fire.
- Use the authorized AC power cable.**  
Use only the AC power cable supplied with the product. Electric current exceeding the rated flow could cause fire. Also, observe the following precautions to prevent electrical shock or fire caused by a damaged power cable.
  - Do not stretch the power cable.
  - Do not bend the power cable.
  - Do not step on the power cable.
  - Do not pinch the power cable.
  - Do not secure the power cable with staples or equivalents.
  - Uncoil the power cable before use.
  - Keep chemicals away from the power cable.
  - Do not place any object on the power cable.
  - Do not alter, modify, or repair the power cable.
  - Do not use a damaged power cable. Replace the damaged power cable with a power cable of the same standard. Contact your sales representative or a maintenance service company for replacement.
- Do not use the attached power cable for any other devices or usage.**  
The power cable that comes with the product is designed for this product. Do not use the attached power cord for any other products or purposes. Doing so may cause a fire or an electric shock.

## Notes on Installation Environment

**Warning**

- Do not connect the ground wire to a gas pipe.**  
Never connect the ground wire to a gas pipe. Failure to follow this warning may cause a gas explosion or a fire.

**Caution!**

- Install or store this product in the specified place.**  
Do not install this product in the following places or any place other than specified in this manual. Failure to follow this instruction may cause a fire.
  - A dusty or humid place
  - A place exposed to direct sunlight or rainwater
  - A place where flammable gas or corrosive gas is present
  - An unstable place

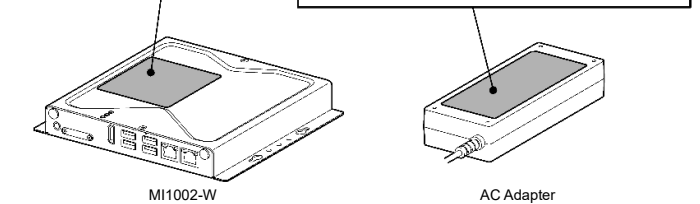
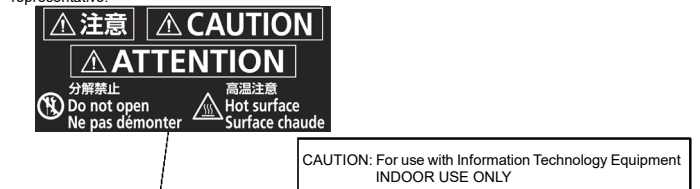
## Notes for Operation

**Caution!**

- Do not touch during thunderstorms.**  
Do not remove the main unit cover when the power plug is connected to the AC outlet. Failure to follow this warning may cause an electric shock.
- Keep creatures away from this product.**  
Keep small animals, insects, and other creatures away from this product. Hair or other waste matter from the creature may enter this product and cause a fire or electric shock.
- Do not place any objects on this product.**  
Doing so may cause the product to malfunction, or the object placed on the product may fall and cause personal injury or damage to nearby personal belongings.
- Do not touch high temperature parts.**  
Do not touch the chassis and AC power adaptor immediately after using the device. They are hot and might cause burns when touched. Wait at least 30 minutes after turning the power to the main device OFF before installing/removing devices installed in the main unit.

## Warning Labels

A warning label is placed on the components and peripherals that require careful handling (The warning label is printed or attached). The warning labels contain information about possible dangers in dealing with this product. Therefore, do not peel off, cover, or dirty the warning labels. If no warning label is printed or attached on this product, or if the attached or printed warning label is peeling off or dirty, please contact your sales representative.



## Precaution for transfer or disposal of this product

Be sure to erase important data in the storage completely before transferring or disposing of this product. Even if the data is invisible on the OS, it may remain in storage. To prevent data leakage to third parties, the customer is responsible for erasing the data.

- Precautions for transferring this product to a third party**  
When transferring (or selling) this product to a third party, please pass on this document, the attached parts and instructions, license agreement and other documents together with the product.
- Disposal precautions**  
When disposing of this product, treat it as industrial waste. This product contains lithium battery. When disposing of batteries, separate them from other wastes according to the local regulations. For details on battery regulations in EU member states, refer to the User's Manual. Be sure to dispose of the attached AC adaptor and power cord together with this product to prevent diversion for other purposes.

## Cautions for transportation by air or sea

When transporting lithium batteries, follow the transportation regulations. For details on the regulations, refer to Mitsubishi Technical Bulletins as follows.  
Precautions for transport regulations on lithium batteries (FA-A-0259)

## FCC statement

This equipment has been tested and complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

## Industry Canada statement

This Class A digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

## European Community statement

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

## Harmonic Current Standard Compliance

This product complies with harmonic current standard EN 61000-3-2. The product has been designed and produced to meet the harmonic environmental target level of the commercial power system according to "Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 20$  A per phase)" of EN.

## Using this product

- This product ("the PRODUCT") shall be used in conditions;
  - where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and
  - where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.
- The PRODUCT has been designed and manufactured for the purpose of being used in general industries. MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR THE PRODUCT.  
("Prohibited Application")  
Prohibited Applications include, but not limited to, the use of the PRODUCT in;
  - Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
  - Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
  - Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

## Confirmation method in the manufacture date

Equipment base label Serial No. reference  
example ) TSBH12345678  
BH: Last two digits of manufacturing age (A:0, ... , J:9)  
1: manufacturing month (1:January, ... , 9:September, A:October, B:November, C:December)

## MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN  
NAGOYA WORKS : 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, JAPAN

This product is developed and manufactured with NEC Corporation.

Produced by NEC Corporation

# MITSUBISHI ELECTRIC INDUSTRIAL PC

## MI1002-W, MI1002-W-CL

### START-UP GUIDE (Back)

Be sure to read the "Safety Precautions" on the front page. This page contains important information related to safety.

This guide describes the steps from opening the carton box until this product is usable. Please set up this product according to the steps described in this guide.

## Step 1 Check the accessories.

Open the carton box, and then make sure you have all the accessories listed below:

- AC adapter
- Power cord (Only MI1002-W)
- Power cord clamp
- 2-pin conversion plug (with ground wire) (Only MI1002-W)
- FG cable
- End User License Agreement (Windows)
- Edgescros Basic Software License Agreement
- SLMP Data Collector License Agreement
- CC-Link IE TSN Communication Software License Agreement
- SLMP Data Collector, CC-Link IE TSN Communication Software End User License Agreement
- Getting Started (This guide)
- Open Source Software Licenses

**Important** Keep the accessories in a safe place.

## Step 2 Place the product to a proper location.

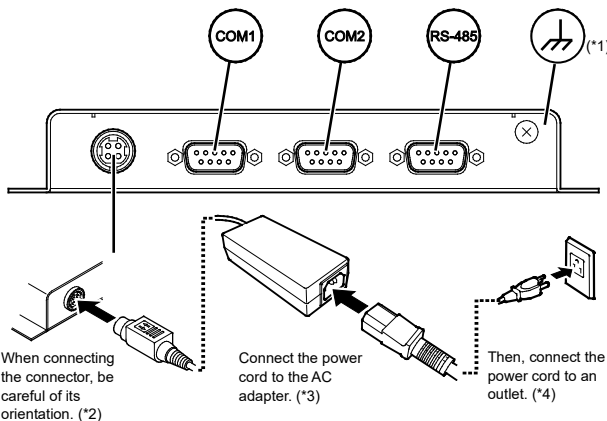
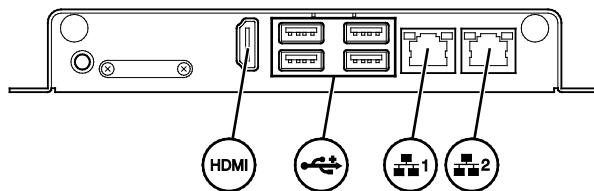
Determine the location to place this product.

- The environment that satisfies the following conditions
  - Operating**
  - Ambient temperature: 0°C to 55°C
  - Humidity: 10% to 85% (No condensation)
- AC 100V 3-pin outlet with ground electrode, or AC 100V 2-pin outlet with ground terminal. Install this product near an outlet that can be easily reached.
- A place with minimal exposure to dust, moisture, direct sunlight, or rain
- A place where flammable gas or corrosive gas is not present
- A place where the product can be fixed securely in place or on a flat, sturdy board

- **Important** The power cord supplied with this product is for use in Japan only. If you need to connect to a power supply exceeding AC 125V or using in areas other than Japan, you need to prepare a dedicated power cord. Please prepare a power cord corresponding to the power supply of the country or region where this product will be used, or consult your sales representative.
- If you are using a 2-pin outlet with ground terminal, use a 2-pin conversion plug with a ground wire supplied with this product and connect the ground wire securely to the ground terminal of the outlet. Use of an outlet other than that specified causes fire and electrical leakage.
- Be sure to ground the FG cable. Otherwise, this product may not perform sufficiently depending on the environment.

## Step 3 Connect cables

Connect the cables to the connectors of this product.



When connecting the connector, be careful of its orientation. (\*2)  
Connect the power cord to the AC adapter. (\*3)  
Then, connect the power cord to an outlet. (\*4)

(\*1) Attach the FG cable before connecting the power cord to an outlet by referring to the procedure on how to attach the FG cable described later in "Hardware Quick Reference."

(\*2) When attaching or removing the connector, firmly hold the part of the connector marked with an arrow.

(\*3) Attach the power cord retention bracket before connecting the power cord to an outlet by referring to the procedure on how to attach the power cord retention bracket described later in "Hardware Quick Reference."

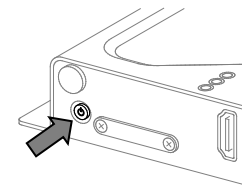
(\*4) If you are using a 2-pin outlet with ground terminal, use a 2-pin conversion plug with a ground wire supplied with this product. Before attaching or removing a ground wire to/from the ground terminal, be sure to unplug the power plug from the outlet.

Icon	Device to connect
HDMI	Display device compatible with an HDMI interface
USB	USB interface device (such as a hub)
1000BASE-T/100BASE-TX/10BASE-T	1000BASE-T/100BASE-TX/10BASE-T interface device (such as a hub)
COM1	Device with a serial interface conforming to the RS-232C standard
COM2	Device with a serial interface conforming to the RS-232C standard
RS-485	Device with a serial interface conforming to the RS-485 standard
FG cable	FG cable (accessory)

## Step 4 Turn on this product.

Turn on the power to this product by pressing the POWER switch on the front panel.

- (1) Press the POWER switch on the front panel.



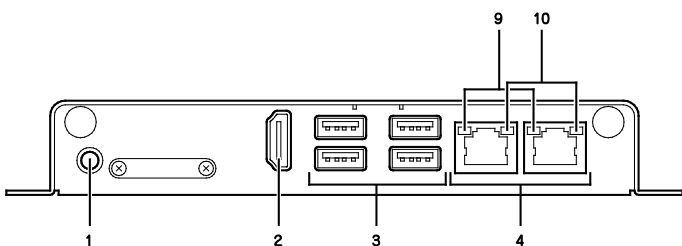
## Product specifications

Item	Mitsubishi Electric Corporation Industrial PC MELiPC Series	
Model number	MI1002-W	
CPU	Processor	Intel® Atom™ Processor E3826 (1.46GHz)
	Number of processors	1
	CPU core	Dual core
	Cooling method	Heat sink (Fanless)
Memory	Type	DDR3L SDRAM
	Capacity	4 GB
	Error detection & correction	Non-ECC
	Operation clock	1066 MHz
	Buffer function	None
Storage	Type	eMMC / mSATA SSD
	Capacity	4 GB / 60 GB
Network (wired)	1000BASE-T/100BASE-TX/10BASE-T (Compatible with AutoMDI/MDI-X)	
Interface	USB	USB 2.0 compliant (Type-A) x 4 (front panel)
	LAN	RJ45 x 2 (front panel)
	Display	HDMI (Type-A, 1.4a) x 1 (front panel)
	Serial	RS-232C x 2 (rear panel) 2.5kV withstand voltage RS-485 x 1 (rear panel) 2.5kV withstand voltage
Size	Width: 186 mm, Height: 26mm, Depth: 150 mm	
Weight	0.90 kg (excluding the AC adapter) / 1.3 kg (including the AC adapter)	
OS	Windows10 IoT Enterprise LTSC 2016 64bit	
Power supply (AC adapter)	AC100 to 264V <sup>*)</sup> , 50/60Hz±3Hz	
Power consumption (Max.)	35 W	
Temperature & humidity	Operating: 0°C to 55°C / 10% to 85% (No condensation) Storage: -20°C to 75°C / 10% to 85% (No condensation)	

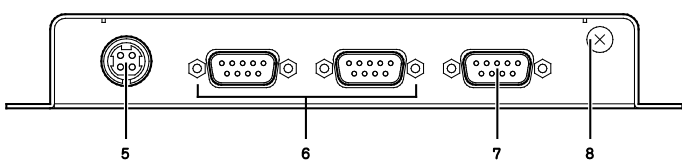
\*1 The power cord supplied with this product is compatible with AC 100V and available for use in Japan only. Be sure to connect the power cord to a 100V outlet. When using this product in a country or region other than Japan, prepare the power cord corresponding to the power supply of the country or region where this product is used. When using the MI1002-W-CL, prepare a power cable that conforms to the power supply to be used and the safety standards of the use area.

## Component names and functions

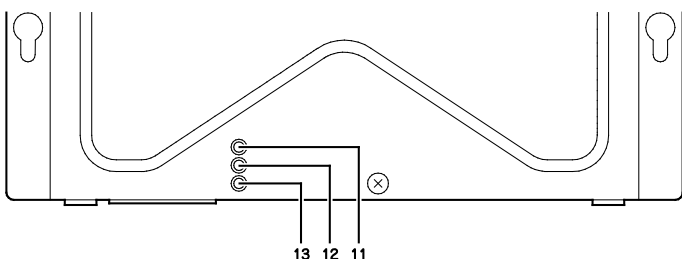
• Front panel



• Rear panel



• LEDs on the top panel



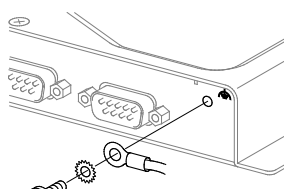
No.	Component Name	Function
1	POWER LED	The switch to turn this product on or off. The light is blue when on, red when off.
2	Display connector (HDMI)	HDMI-compatible connector
3	USB connector (4 ports)	USB 2.0-compatible connectors. Can be used for connecting USB interface-compatible devices.
4	LAN connector (2 ports)	Network connectors compatible with 1000BASE-T, 100BASE-TX, and 10BASE-T.
5	Power connector	Used to connect the AD adapter supplied with this product.
6	Serial port connector (RS-232C)	Used to connect to products with RS-232C-compatible serial interfaces.
7	Serial port connector (RS-485)	Used to connect to products with RS-485-compatible serial interfaces.
8	Functional grounding screw	Used to connect the FG cable (accessory).
9	Link/Act LED (Link/Act)	Indicates the access status of the LAN port. While connecting to LAN: Lit in amber. While transferring data: Blinking in amber
10	SPEED LED	Indicates the communication speed of the LAN port. While connecting to 1000Base-T: Lit in green. While connecting to 100Base-T: Lit in amber. While connecting to 10Base-T: Lights off.
11	SATA access LED	Blinking (in green) while accessing the internal storage.
12	PG0 LED	These LEDs can be set up by using an application.
13	PG1 LED	Blinking (green), lit (green), or light off

## Hardware Quick Reference

• FG cable

Attach the FG cable according to the procedure below.

- (1) Remove the functional ground screws on the rear panel. Then, attach one end of the FG cable to the rear panel and tighten the functional ground screws.



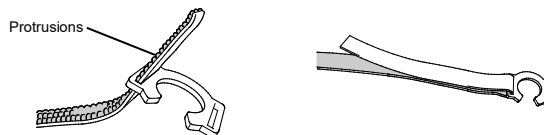
- (2) Ground the other end of the FG cable.

**Important**

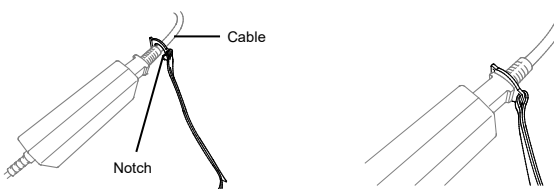
- Be sure to ground the FG cable. Otherwise, this product may not demonstrate sufficient performance depending on the environment.
- Be sure to ground the FG cable before connecting the power plug to an outlet.
- To remove the grounded FG cable, be sure to turn the power to the product off and unplug the power plug from the outlet in advance.

• Preventing the power cord from coming out of an outlet

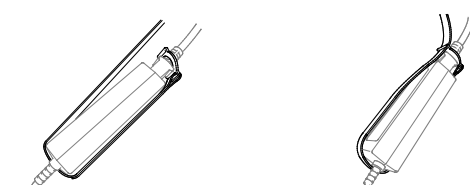
- (1) Pass the hook and loop fastener with the protrusions facing in through a rectangle hole on one side of the plate. Fold back the fastener to a length of around 100 mm and affix it.



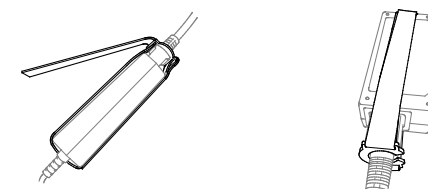
- (2) Insert the power cord cable into the notch in the plate. Move the plate to the base of the power cord connector.



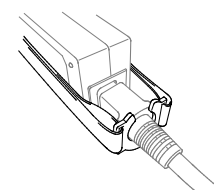
- (3) Loop the fastener around the AC adapter. Pass the fastener through the other rectangular hole on the plate.



- (4) Pull the fastener so it is not slack. Fold back and affix the fastener.



- (5) Check to make sure that the power cord is secured as shown in the figure.



● 台灣有害物質限制使用管理辦法 (RoHS)

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱: 電腦(微型計算機)	型號 (型式): EGW001-003						相對應排除項目依據 (D1-D7)
	Type designation (Type)						
單元 (Unit)	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr(VI))	多溴聯苯 (Polybrominated biphenyls (PBB))	多溴二苯醚 (Polybrominated diphenyl ethers (PBDE))	
電路板	○	○	○	○	○	○	
外殼	○	○	○	○	○	○	
RTC Battery (鈕扣電池)	○	○	○	○	○	○	
電源供應器	-	○	○	○	○	○	D13, D14, D16
配件 (線材、端子等)	-	○	○	○	○	○	D13

備考 1: 「超出 0.1 %」及「超出 0.01 %」係指限用物質之百分比含量超出百分比含量基準值。  
 Note 1: "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.  
 備考 2: 「○」係指該項限用物質之百分比含量未超出百分比含量基準值。  
 Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.  
 備考 3: 「-」係指該項限用物質為排除項目。  
 Note 3: The "-" indicates that the restricted substance corresponds to the exemption.

## TRADEMARKS

Microsoft, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.  
 Intel, and Intel Atom are either registered trademarks or trademarks of Intel Corporation in the United States and/or other countries.  
 The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.  
 The company names, system names and product names mentioned in this manual are either registered trademarks or trademarks of their respective companies.  
 In some cases, trademark symbols such as ™ or ® are not specified in this manual.

This product was developed and manufactured by Mitsubishi Electric Corporation in collaboration with NEC Corporation.

## MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHYODA-KU, TOKYO 100-8310, JAPAN  
 NAGOYA WORKS: 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA, JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.

© 2018-2020 MITSUBISHI ELECTRIC CORPORATION