

RTX1300

Read This First**EN****Accessories**

- Read This First (this sheet): 1 sheet
- AC Power Cord: 1 piece
- Power Cord Retention Bracket: 1 piece
- Rubber feet: 4 pieces
- Dust Covers (pre-installed on the SFP+ slots at the time of factory shipment): 2 pieces

Guide to the manual

In order to fully utilize the functions of this product, the following manuals are available. Please read the appropriate manual according to your purpose.

- Read This First (this document)

Precautions for using this product are described. Be sure to read and observe the precautions before using the product.

- User Guide (website)

For those who manage the network connecting this product to this product, we will comprehensively explain how to introduce, configure, and manage this product. Be sure to read and observe the precautions before using the product.

- Command Reference (Website)

This document describes the format of the command to configure this product and examples of its use.

- This product is designed for use in general office environments and is not intended for applications requiring high reliability, such as those involving human life or high-value assets.
- We shall not be held liable for any loss or damage resulting from the improper use of this product. The warranty is limited to physical damage to the product itself.

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No.: **RTX1300**

Serial No.:

(1003-M06 plate bottom en 01)

PRECAUTIONS**Be sure to follow the instructions**

- Please carefully read and observe the following precautions to avoid injury or damage to your assets.
- After reading this document thoroughly, please retain it in a location that anyone using the product can access at any time.

**WARNING**

These precautions alert you to the possibility of death or serious injury to you or others.

- Use the power supply voltage indicated on this product. Incorrect connection may result in electric shock or fire.
 - Be sure to use the supplied power cord. It may cause fire, electric shock, or malfunction.
 - Do not use the supplied power cord with other electrical devices. Doing so may cause fire, electric shock, or malfunction.
 - Connect the power plug to an outlet that is visible and within easy reach. This allows you to quickly unplug the power in case of emergency.
 - When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the POWER switch and disconnect the plug from the outlet. Even when the POWER switch is turned off, as long as the power cord is not unplugged from the wall AC outlet, the product will not be disconnected from the power source.
 - Check the power cord plug periodically and remove any dirt or dust that may have accumulated. Otherwise, fire or electrical shock may be caused.
 - If any of the following problems occur, immediately turn off the POWER switch and disconnect the electric plug from the outlet:
 - The power cord or plug becomes frayed or damaged.
 - Unusual smells or smoke are emitted.
 - Some object, or water has been dropped into the product.
 - Cracks or other visible damage appear on the product.
 - Exposure to water
 - Fan has stopped
- Have the product inspected or repaired by qualified Yamaha service personnel.
- Do not block the heat dissipation of this product when installing it. Inadequate ventilation may result in overheating inside the product, possibly causing fire or malfunction.
 - Do not cover the product with a cloth or table cloth.
 - Do not install the product on a carpet or rug.
 - Do not block the vents (holes for taking in outside air, heat dissipation and fan exhaust).
 - Do not use the product in a confined, poorly-ventilated location.
 - Do not handle this product with wet hands. Doing so may cause electric shock or malfunction.
 - Do not place on this product any containers (such as vases or medicine bottles) that contain liquids. If liquid spills into the product, fire, electrical shock or malfunction may be caused.
 - Do not insert metal objects, paper, or other foreign materials into the gaps of the main unit. This may cause fire, electric shock, or malfunction.
 - Do not disassemble or modify the product under any circumstances. Doing so may cause fire, electric shock, or malfunction.
 - Do not disassemble or modify the power cord. Doing so may cause fire, electric shock, or malfunction.
 - Do not damage the power cord.
 - Do not place heavy objects on it.
 - Do not modify or process it.
 - Do not fasten with staples.
 - Do not apply excessive force.
 - Keep away from heat sources.
 - Do not touch the inside of the ports on this product with your fingers, metal objects, or similar items. Doing so may cause electric shock or malfunction.
 - Do not drop this product or subject it to strong impacts. Internal components may be damaged, causing electric shock, fire, or malfunction.
 - Do not install the product in locations exposed to water, excessive dust or humidity, oil smoke or steam, or corrosive gases. This may cause fire, electric shock, or malfunction.
 - Install the product either horizontally or vertically using the separately sold mounting kit. If installed upside down or vertically without using our separately sold mounting kit, it may cause injury from falling or damage to the

equipment.

- Do not touch the product or the power plug during an electrical storm.
- To prevent electric shock, ensure the product is grounded. Always connect the grounding wire before plugging the power plug into the outlet. When disconnecting the grounding wire, always unplug the power plug from the outlet first.
If the product is not grounded correctly, electrical shock, fire or malfunction may be caused.
- When unplugging the power plug, always hold the plug itself and do not pull on the power cord. Pulling the cord may cause damage, which can lead to electric shock or fire.
- Remove the electric plug from the outlet when the product is not to be used for extended periods of time.
- Before moving the product, remove all connected cables.
- Be sure to read the supplied instruction documents of the devices to be connected and follow the instructions provided. Failure to do so may cause a fire or injury.
- Connect cables that conform to the specifications of each port. Using cables that do not meet the specifications may cause fire or malfunction.
- Do not replace the built-in battery by yourself.
Doing so may cause an explosion or malfunction of the product. If the battery needs to be replaced, contact your Yamaha dealer and ask qualified Yamaha service personnel to replace the battery.
- Do not dispose of this product in fire. Do not expose this product to conditions of extremely low air pressure, cold or heat (such as in direct sunlight or a fire) or excessive dust or humidity. Doing so may result in the built-in battery bursting, causing a fire or injury.



CAUTION

These precautions alert the user to the possibility of physical injury.

- Do not install the product in unstable or vibrating locations.
The product may fall or tip over, causing injury or malfunction.
- Install this product in accordance with the instructions described in the User Guide (on our website.)
- Do not touch this product for extended periods.
Prolonged contact with the same area of skin may cause low-temperature burns, even at relatively low temperatures.
- Keep small parts out of the reach of infants.
Your children may accidentally swallow them.

NOTICE

Follow the precautions below to avoid malfunction and damage to this product and to prevent the loss of data.

- Even when the POWER switch is in standby status (the POWER indicator is off), electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure you unplug the power cord from the wall AC outlet.
- Do not place this product on top of other devices. Heat may build up and cause malfunction.
- Do not install this product in direct sunlight or in locations where temperatures may become abnormally high (such as near a heater). Doing so may cause malfunctions.
- Do not use this product in places where the ambient temperature changes rapidly. Sudden temperature changes may cause condensation inside the product. Using the product while condensation is present may result in malfunction. If condensation occurs, leave the product unplugged until it has completely dried.
- Before touching this product, discharge any static electricity from your body or clothing. Static electricity may cause malfunction.
- Do not install this product in locations with strong magnetic fields. Doing so may cause malfunctions.
- Do not connect equipment that generates noise to the same power line as this product. This may cause malfunction or operational failure.
- Depending on the surrounding environment, the use of this product may cause noise interference with telephones, radios, or televisions. In such cases, try changing the installation location or orientation of this product.
- Do not route communication cables close to power cords. Induced high voltage may cause operational failure.
- When using this product with 1000BASE-T, 2.5GBASE-T, or 5GBASE-T, please use LAN cables of Enhanced Category 5 (CAT5e) or higher. When using 10GBASE-T, please use Category 6 (CAT6) or higher LAN cables. However, when using 2.5GBASE-T, 5GBASE-T, or 10GBASE-T, the maximum transmission distance may be shorter than the standard value due to the influence of adjacent cables or external noise.

- By connecting a USB data communication device to the USB port of this product, you can establish a wireless WAN connection using a mobile network. Please note that even if your data communication plan is flat-rate, incorrect settings may result in usage-based charges.
- Do not use extension cables when connecting USB devices (such as USB memory sticks) to the USB port of this product. When connecting a computer to the mini-USB CONSOLE port, use a USB cable shorter than 3 meters in length.
- The microSD slot and USB port of this product do not guarantee the operation of all external memory devices.
- Please note that we cannot accept any responsibility for data loss or damage to data when using this product. Thank you for your understanding.
- When transferring ownership of this product, please make sure to transfer this document along with the product.
- This product uses a lithium battery to back up the clock function. When disposing of this product, please follow the disposal instructions of your local government.
- When transferring or disposing of this product, please initialize the configuration settings.
- Before using the SFP+ slots, be sure to read the “User Guide” (available on the website) and always install only the specified SFP modules (Class 1 laser, sold separately) or direct attach cables (sold separately). Operation cannot be guaranteed if non-specified SFP modules or direct attach cables are used.
- When connecting devices using direct attach cables (sold separately) or STP cables, ensure that the devices are properly grounded at the same potential.
- When the SFP+ slots are not in use, be sure to attach dust covers to prevent foreign objects from entering, which may cause malfunction. Keep any dust covers removed in a safe place to avoid losing them.
- Direct attach cables (sold separately) may be difficult to remove. Please refer to the “User Guide” (available on the website) and follow the correct procedure for removal. Forcibly pulling the cable may damage this product or the direct attach cable.

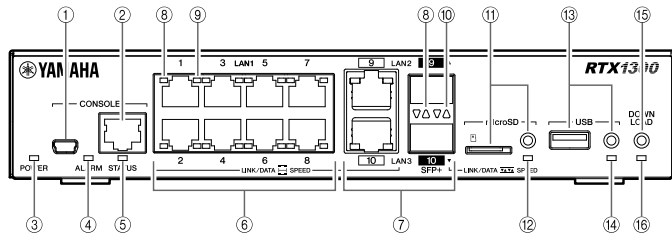
NOTE

This section describes precautions to be observed during use, functional restrictions, and supplemental information that may be helpful for you.

- You can use the “**external memory performance-test go**” command to check the operation of microSDHC cards and USB memory devices. For more details, please refer to the “Command Reference” (available on the website.)
- It is recommended to back up the data on microSDHC cards and USB memory devices regularly.
- Software license agreement
The product firmware revision number can be updated. Updating the firmware revision is considered an indication of agreement to the Yamaha network product software license agreement. Before updating the firmware revision, be sure to carefully read the Yamaha network product software license agreement. If you cannot agree to the terms in the Yamaha network product software license agreement, do not update the firmware revision. Even in the case of negligence, Yamaha accepts no responsibility for any customer losses caused by the software, unless such disclaimer is specifically prohibited by an applicable law or regulation.
Yamaha Network Product Software License Agreement
<https://www.rtpro.yamaha.co.jp/RT/docs/firmware/license/LICENSE>
- Open-source software used by this product
Visit the following website for the relevant license agreement.
<https://network.yamaha.com/support/>
(The page is in Japanese. Please use your browser's translation feature to check.)

Name and function of each part

Front



① Mini-USB CONSOLE Port

This is a mini-USB port for configuration. Connect it to the USB port of a computer using a USB cable.

② RJ-45 CONSOLE Port

This is an RJ-45 port for configuration. Connect it to the RS-232C port (COM port) of a computer using an RJ-45/DB-9 console cable.

③ POWER Indicator

Indicates the power status of this product.

④ ALARM Indicator

Indicates fault or error status of this product.

⑤ STATUS Indicator

Indicates the backup status of the connection line.

⑥ LAN Ports

Ports supporting 10BASE-T, 100BASE-TX, and 1000BASE-T.

⑦ LAN/SFP+ Combo Ports

Either the LAN port or the SFP+ slot can be used.

The LAN ports support 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, and 10GBASE-T.

The SFP+ slots support 1000BASE-SX, 1000BASE-LX, 10GBASE-SR, and 10GBASE-LR.

Optional SFP modules or direct attach cables (sold separately) can be installed.

NOTICE

The LAN port and the SFP+ slot are mutually exclusive and cannot be used simultaneously. Do not connect cables to both the LAN port and the SFP+ slot with the same port number, as this may cause malfunctions.

⑧ LINK/DATA Indicator

Indicates the status of the LAN port or the SFP+ slot.

⑨ SPEED Indicator (LAN Port)

Indicates the connection speed of the LAN port.

⑩ SPEED Indicator (SFP+ Slot)

Indicates the connection speed of the SFP+ slot.

⑪ microSD Slot and Button

This is the slot for inserting a microSDHC card. When removing the microSDHC card, press and hold the microSD button for more than two seconds, and remove the card only after the microSD indicator turns off.

NOTICE

- Insert the microSDHC card horizontally from the front of the device.
- Inserting the microSDHC card at an angle may cause it to become stuck and difficult to remove.

⑫ microSD Indicator

Indicates the connection and usage status of the microSDHC card.

⑬ USB Port and Button

This port is used for connecting USB memory devices or data communication devices compatible with mobile networks. When removing a USB device, press and hold the USB button for more than 2 seconds, and remove the device only after the USB indicator turns off.

⑭ USB Indicator

Indicates the connection and usage status of the USB device.

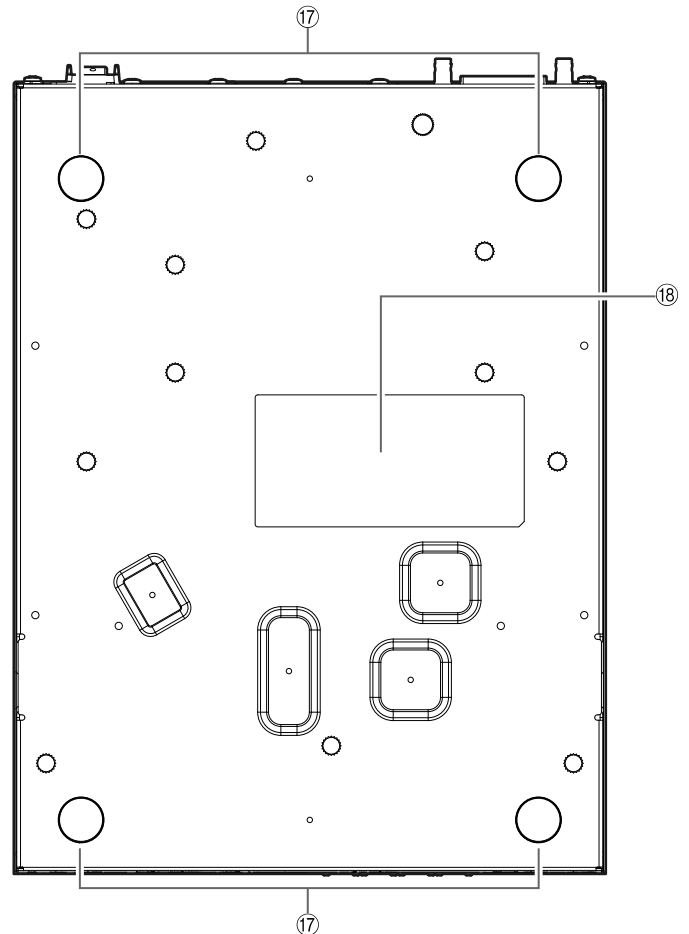
⑮ DOWNLOAD Button

Pressing and holding this button for more than three seconds will update the firmware revision. By default, this function is disabled.

⑯ DOWNLOAD Indicator

Indicates the status of firmware downloading.

Bottom



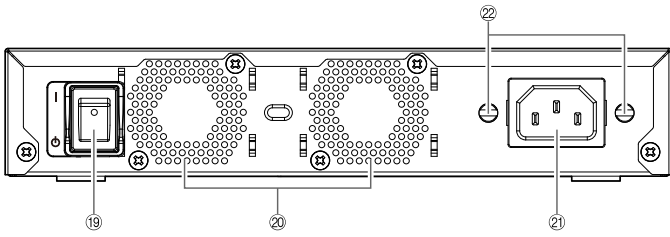
⑰ Rubber Feet Mounting Positions

Attach the supplied rubber feet here. Install the rubber feet as needed.

⑱ Product Label

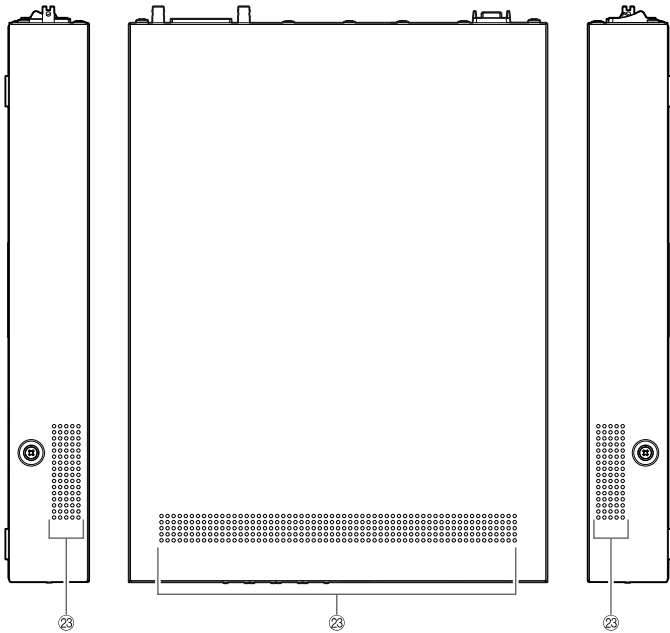
Displays information such as the product name, serial number, MAC address, and the Device ID required for Yamaha Network Organizer (YNO) usage.

Rear



- 19 POWER Switch**
Turns the power of this product ON or STANDBY.
 I (ON): To start the product, connect the power cord to the product first, then turn the POWER switch to ON.
 O (STANDBY): To stop the product, set the POWER switch to STANDBY.
- 20 Ventilation Holes**
Heat generated inside the device is forcibly expelled by a fan.
- 21 Power Inlet (3-prong connector, C14 type)**
Insert the supplied power cord here.
- 22 Power Cord Retention Bracket Mounting Hole**
Attach the supplied U-shaped power cord retention bracket here.

Top / Side



- 23 Ventilation Holes**
The fan draws in outside air to cool the interior.

Hardware Specifications

| Item | Specifications |
|---|--|
| General Specifications | |
| Dimensions | 220 (W) × 294 (D) × 42 (H) mm (excluding protrusions) |
| Weight | 1.9 kg (excluding accessories) |
| Power Supply Voltage and Frequency | AC 100 – 240 V, 50/60 Hz |
| Maximum Power Consumption / Maximum Current Consumption | 25.9W / 0.48A |
| Indicators | POWER, ALARM, STATUS, LINK/DATA (× 12), SPEED (× 12), microSD, USB, DOWNLOAD |
| Number of fans | 2 |
| Operating Environment Conditions | Ambient Temperature / Ambient Humidity: 0–45°C / 15–80% (non-condensing) |
| Storage Environment Conditions | Ambient Temperature / Ambient Humidity: -20 to 50°C / 10 to 90% (non-condensing) |
| LAN Port | |
| Standard | IEEE 802.3 (10BASE-T / 100BASE-TX / 1000BASE-T) |
| Number of Ports | 8 |
| Communication Mode | Auto-Negotiation or Fixed Setting |
| Polarity | Auto MDI/MDI-X or Fixed Straight |
| LAN/SFP+ Combo port | |
| Standard | LAN port: IEEE 802.3 (100BASE-TX / 1000BASE-T / 2.5GBASE-T / 5GBASE-T / 10GBASE-T) SFP+ slot: IEEE802.3z (1000BASE-SX/1000BASE-LX), IEEE802.3ae (10GBASE-SR/10GBASE-LR) |
| Number of Ports | LAN port: 2 (shared with SFP+ slots) SFP+ slot: 2(Cannot be used simultaneously with LAN port) |
| Communication Mode | LAN port: Auto-Negotiation or Fixed Setting |
| Polarity | LAN port: Auto MDI/MDI-X or Fixed Straight |
| CONSOLE port | |
| Standard | USB 2.0 / RS-232C |
| Connector | USB Mini-B / RJ-45 |
| Data Transfer Speed | 9600 (default) / 19200 / 38400 / 57600 / 115200 bit/s |
| USB port | |
| Standard | USB 2.0 |
| File System | FAT / FAT32 |
| microSD slot | |
| Standard | Compatible with microSDHC (Speed Class UHS-I or higher), microSDXC not supported |
| File System | FAT32 |