

# Router

# RTX840

## Read This First

**EN**

## Accessories

- Read This First (this sheet): 1 sheet
- AC Power Cord: 1 piece

## 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.: **RTX840**

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.**

- In any of the following cases, immediately turn off the power and unplug the power 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.
 Continued use may result in electric shock, fire, or malfunction. Immediately request an inspection or repair from the dealer where you purchased the unit or from qualified Yamaha service personnel.
- Do not damage the power cord:
  - Keep away from heating appliances such as stoves
  - Do not bend or machine.
  - Do not hurt.
  - Do not put heavy objects on it.
  - Do not staple.
 This may cause fire, electrical shock, or malfunction.
- Do not touch this product or the power plug or cord when there is a risk of lightning strike. Doing so may cause electric shock.
- 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.
- 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.
- Make sure to fully insert the power plug to prevent electric shocks or fire.
- Check the power plug periodically and remove any dirt or dust which may have accumulated on it.
- Even when the POWER switch is in standby status, 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 disassemble or modify this product. It may cause fire, electric shock, explosion, injury, or malfunction. Inside this product, there are no parts that can be repaired or replaced by the customer.
- 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 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 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.
- 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 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.
- Do not insert or remove the power plug with wet hands. Also, do not handle this product with wet hands. It 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.

- Be sure to read the manual of the equipment to be connected and follow the description.

Failure to do so may cause fire, electric shock, explosion, 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.

- Install horizontally or vertically.

If you install it upside down, injury or damage to the equipment may occur due to dropping.



## CAUTION

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

- When pulling out the power plug, be sure to hold the power plug and pull it out without holding the power cord.  
Fire, electric shock, or malfunction may occur due to damage to the power cord.
- Do not install in unstable places or places with vibration.  
This product may fall or tip over, resulting in injury or malfunction.
- 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 this product with any cloth.
  - Do not install this product on a carpet or rug.
  - Do not use this product in a confined, poorly-ventilated location.
- Do not stack this product on top of or under other devices, since doing so may cause fire or burns.
- Install this product in accordance with the instructions described in the User Guide (on our website.)
- Do not install it in places where salt damage or corrosive gas is generated, or where there is a lot of oily smoke or steam.  
May cause fire, electric shock, or malfunction.
- Keep small parts out of the reach of infants.  
Your children may accidentally swallow them.
- Be sure to turn off the power and disconnect all connection cables when moving this product.  
There is a risk that the customer may fall or damage the cable.

## NOTICE

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

- 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 touch the inside of ports and slots with fingers or metal. It may cause malfunction or poor contact.
- Do not install this product in a place where the magnetic field is strong. It may cause malfunction.
- Do not connect equipment that generates noise to the same power line as this product. This may cause malfunction or operational failure.
- When using this product, depending on the surrounding environment, noise may come into telephones, radios, televisions, etc. In this case, try changing the installation location and orientation of this product.
- Do not wire the communication cable close to the power cord. A large voltage is induced, and it may cause malfunction.
- When using this product with 1000BASE-T, please use a LAN cable of Enhanced Category 5 (CAT5e) or higher.
- 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.
- It is recommended that the data on the microSD card and USB memory be

backed up regularly.

- We will not be liable for any damage caused by data loss or data corruption when using this product. Please be forewarned.

### Transfer/Disposal

- 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.  
If important information remains in this product, there is a possibility that information may be leaked to a third party or that it may be attacked by unauthorized access.

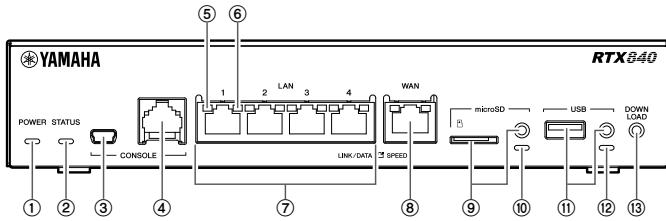
## NOTE

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

- Software license agreement  
Using this product is considered an indication of agreement to the Yamaha network product software license agreement. Before using this product, 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 use this product.  
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.)

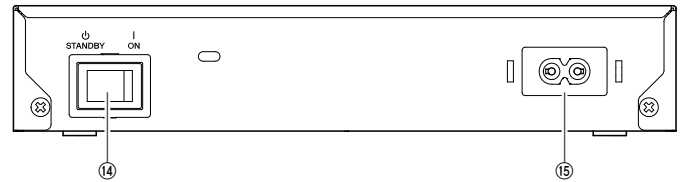
# Name and function of each part

## Front



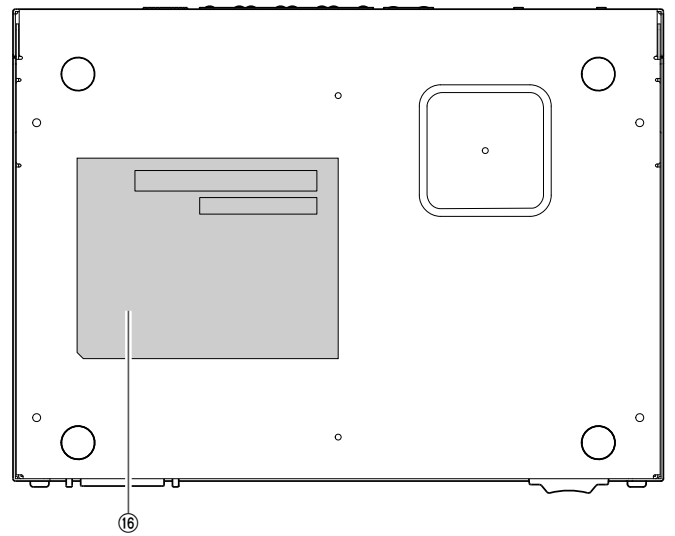
- ① **POWER Indicator**  
Indicates the power status of this product.
  - ② **STATUS Indicator**  
Indicates the backup status of the connection line.
  - ③ **Mini USB CONSOLE Port**  
This is a mini USB port for configuration. Connect it to the USB port of a computer using a USB cable.
  - ④ **RJ-45 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.
  - ⑤ **LINK/DATA Indicator**  
Indicates the status of the LAN port / WAN port.
  - ⑥ **SPEED Indicator**  
Indicates the connection speed of the LAN port / WAN port.
  - ⑦ **LAN Ports**  
The LAN ports support 10BASE-T, 100BASE-TX, 1000BASE-T. It is a four-port switching hub.
  - ⑧ **WAN Port**  
The WAN port supports 10BASE-T, 100BASE-TX, 1000BASE-T.
  - ⑨ **microSD Slot and Button**  
This is the slot for inserting a microSD card. When removing the microSD 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 microSD card horizontally from the front of the device.
  - Inserting the microSD card at an angle may cause it to become stuck and difficult to remove.
- ⑩ **microSD Indicator**  
Indicates the connection and usage status of the microSD card.
  - ⑪ **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.
  - ⑫ **USB Indicator**  
Indicates the connection and usage status of the USB device.
  - ⑬ **DOWNLOAD Button**  
Pressing and holding this button for more than three seconds will update the firmware revision. By default, this function is disabled.

## Rear



- ⑭ **POWER Switch**  
Switch this product to ON/STANDBY.  
  - ⏻ (ON): When starting this product, connect the power cord to this product and then turn the POWER switch to ON.
  - ⏻ (STANDBY): When discontinuing use of this product, turn the POWER switch to STANDBY.
- ⑮ **Power Inlet (2-pole connector, C8 type)**  
Connect the included power cord.

## Bottom



- ⑯ **Product Label**  
Displays information such as the product name, serial number, and MAC address.

# Hardware Specifications

Items	Specifications and characteristics
<b>General Specifications</b>	
Dimensions	220 (W) × 43.5 (H*) × 160 (D) mm (excluding protrusions) * Height including legs
Weight	1.1 kg (excluding accessories)
Power Supply Voltage and Frequency	AC 100 – 240 V, 50/60 Hz
Maximum Power Consumption / Maximum Current Consumption	12 W / 0.24 A
Indicators	POWER, STATUS, LAN [LINK/DATA, SPEED] × 4, WAN [LINK/DATA, SPEED], microSD, USB
Operating Environment Conditions	Ambient Temperature / Ambient Humidity: 0–50°C / 15–80% (non-condensing)
Storage Environment Conditions	Ambient Temperature / Ambient Humidity: -20 to 50°C / 10 to 90% (non-condensing)
<b>LAN Port</b>	
Standard	IEEE 802.3 (10BASE-T / 100BASE-TX / 1000BASE-T)
Number of Ports	4 (4 port L2 switch)
Communication Mode	Auto-Negotiation or Fixed Setting
Polarity	Auto MDI/MDI-X or Fixed Straight
<b>WAN Port</b>	
Standard	IEEE 802.3 (10BASE-T / 100BASE-TX / 1000BASE-T)
Number of Ports	1
Communication Mode	Auto-Negotiation or Fixed Setting
Polarity	Auto MDI/MDI-X or Fixed Straight
<b>CONSOLE Port (USB Mini-B)</b>	
Standard	USB 2.0
Data Transfer Speed	9600 (default) / 19200 / 38400 / 57600 / 115200 bit/s
<b>CONSOLE Port (RJ-45)</b>	
Standard	RS-232C
Data Transfer Speed	9600 (default) / 19200 / 38400 / 57600 / 115200 bit/s
<b>USB Port (Type-A)</b>	
Standard	USB 2.0 (Power supply current max. 500mA)
File System	FAT / FAT32
<b>microSD Slot</b>	
Standard	microSD/microSDXC
File System	FAT or FAT32