



CI S2

BluOS Music Streamer

ENGLISH



Owner's Manual

GETTING STARTED

WHAT'S IN THE BOX

Packed with your CI S2 you will find

- Switch mode power supply
- 1 piece of 2-position terminal block (for TRIGGER OUT)
- 1 piece of 4-position terminal block (for TRIGGER IN/IR IN)
- 4 pieces of rubber feet
- 2 pieces of rack ears (long)
- 2 pieces of rack ears (short)
- 2 pieces of screws (for surface mounting of short rack ears)
- Important Safety Instruction sheet
- Quick Setup Guide

SAVE THE PACKAGING

Please save the box and all the packaging in which your CI S2 arrived. Should you move or otherwise need to transport your CI S2, this is by far the safest container to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box!

NETWORK SETUP

Connect your CI S2 to your home network via Wired connection. Using an Ethernet cable (not supplied), connect one end to CI S2's LAN port and the other end directly to your home network or router.

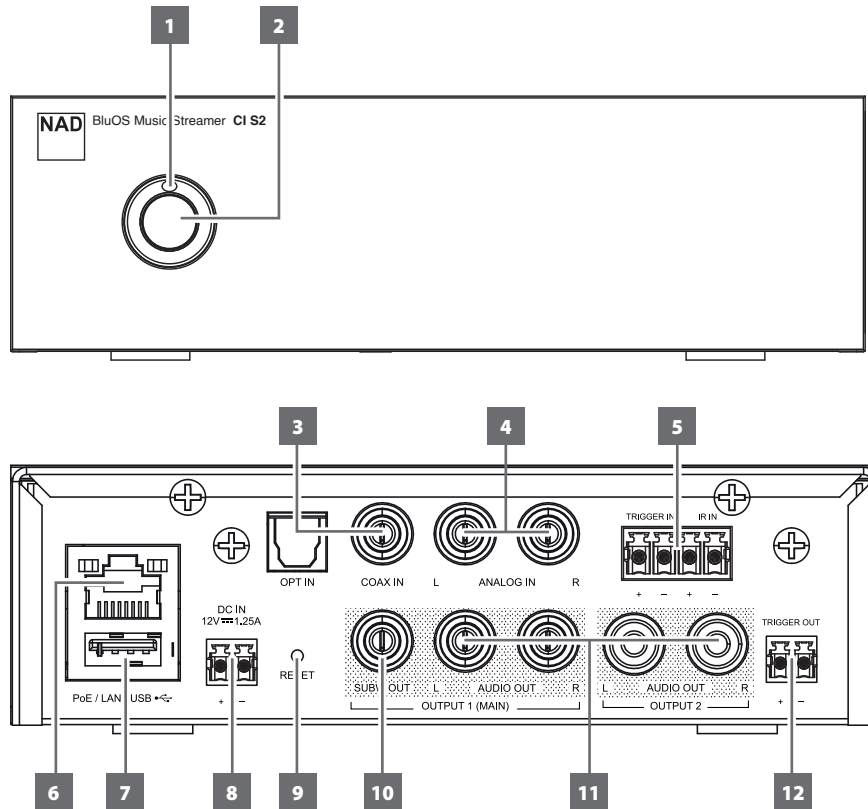
MAKING THE MOST OF YOUR CI S2

Download the BluOS App from the respective App stores of iOS devices, Android devices, and Windows or macOS desktops.

The BluOS App allows you to manage all BluOS-enabled products. For proper operation, both the CI S2 and the device running the BluOS App must be connected to the same network.

Launch the BluOS App and explore everything from your streaming music services, internet radio stations, networked music collections and favorites with quick and easy single-search discovery.

For more information on setup and operational guidelines of your CI S2, visit support.bluos.net.



ATTENTION!

Please ensure that the CI S2 is powered off or unplugged from the mains power outlet before making any connections. It is also advisable to power down or unplug all associated components while making or breaking any signal or AC power connections.

1 POWER LED INDICATOR

- If there is no network connection, this indicator will illuminate green.
- If there is a network connection, this indicator will illuminate blue.
- Refer to the POWER LED STATUS INDICATORS table for additional POWER LED color indicators.

POWER LED STATUS INDICATORS

LED INDICATOR	LED INDICATOR COLOR	DESCRIPTION
POWER	Solid red, flashing green	Powering up, rebooting
	Flashing green	No network connection
	Blue	Connected to Network - ready to use with BluOS App
	Red	Upgrade Mode
	Alternate flashing red and green	Upgrading
	White	Indexing
	No light	Deep standby mode

2 POWER BUTTON

- Use the POWER button to switch the unit from standby mode to operating mode, or to put the unit into deep standby mode.

NETWORK STANDBY MODE

With network connection, the CI S2 will automatically switch to Network Standby mode after 15 minutes of no user interaction or active source input.

- Press the POWER button to switch the unit from Standby mode to Operating mode.
 - POWER LED will flash green when there is no network connection.

- POWER LED will illuminate blue when a network connection is established.
- The CI S2 maintains network connection at Network Standby mode with reduced system performance.
- When the CI S2 enters Network Standby mode, the POWER LED indicator remains lit in blue.
- Wake up the CI S2 from Network Standby mode by undertaking any of the following
 - Press the POWER button
 - Play any music service from the BluOS App
 - Select from the BluOS App any of the sources – Optical, Coaxial or Analog Input

DEEP STANDBY MODE

When set to Deep Standby mode, the CI S2 will completely power off with no network or activity, making it inaccessible via the network or the BluOS App.

- While in Operating Mode, press and hold this button until the POWER LED indicator turns off (no light). The unit will enter Deep Standby Mode.
- To wake up the CI S2 from Deep Standby mode, press the POWER button. The POWER LED will illuminate blue to indicate that normal operation has resumed.

3 OPTICAL IN, COAXIAL IN

- Use applicable connectors (not supplied) to connect OPT IN and/or COAX IN terminals to corresponding Digital Audio Output terminals of compatible external devices such as CD players, streamers, digital cable box, digital tuners and other applicable devices.
- Select **Optical Input** or **Coaxial Input** as the source in the BluOS App.

IDENTIFICATION OF CONTROLS

- Optical Input and Coaxial Input can be assigned to either Zone 1 or Zone 2. However, when one of these inputs is being used in one zone, it cannot be selected in the other zone via the BluOS App.
- Auto sense for Optical Input and Coaxial Input is supported only in Zone 1.

4 ANALOG IN

- Input for line level sources such as audio output from a video matrix or receiver, or any other compatible audio devices. Use dual RCA-to-RCA cable to connect the source device's left and right **Audio Output** to this line input ports.
- The connected source will appear as **Analog Input** in the BluOS App navigation drawer.
- Analog Input can be assigned to either Zone 1 or Zone 2. However, when Analog Input is being used in one zone, it cannot be selected in the other zone via the BluOS App.
- Auto sense for Analog Input is supported only in Zone 1.

5 TRIGGER IN, IR IN

- Use the supplied 4-position terminal block (for TRIGGER IN/IR IN) to connect the TRIGGER IN (+/-) terminals to the corresponding terminals of a compatible external +12V TRIGGER source, and the IR IN (+/-) terminals to the output of an external IR repeater/receiver or the IR output of another compatible device.
- Install the wired TRIGGER IN/IR IN terminal block into the corresponding TRIGGER IN/IR IN terminals on the CI S2 rear panel.

TRIGGER IN

The TRIGGER IN is intended for use by Professional Integrators only. It can be configured to perform BluOS functions based on changes in trigger voltage status. Configuration is available exclusively through the BluOS Configuration Utility application. Professional Integrators may contact Support@BluOS.net to request access to this software.

IR IN

- The IR IN port requires an IR receiver kit (not supplied). The CI S2 can be used with a BluOS IR remote, or with a third-party IR remote configured through the IR Learning menu in the BluOS app.
- If a USB-powered IR receiver and emitter are used and power is drawn from the CI S2's USB port, the emitter's negative wire must be connected to the positive input of the player's receiver port.
- When using an external USB power supply or an extender kit, the emitter's negative and positive wires should be connected to the IR input using the standard wiring configuration.

6 LAN/PoE

- LAN connection must be setup for wired connection to be established. Use a standard Ethernet cable (not supplied) to connect the CI S2 LAN port to your router or network switch.
- DHCP must be supported by the router to assign an IP address to CI S2.
- The CI S2 can be powered using either the supplied Switch Mode Power Supply or via Power over Ethernet (PoE).
- The CI S2 has an average power consumption of approximately 5W making standard PoE sufficient. When using a PoE switch, ensure that enough power is allocated to support all connected devices.

NOTES

- *NAD is not responsible for any malfunction of the CI S2 and/or the internet connection due to communication errors or malfunctions associated with your broadband internet connection or other connected equipment. Contact your Internet Service Provider (ISP) for assistance or the service bureau of your other equipment.*
- *Contact your ISP for policies, charges, content restrictions, service limitations, bandwidth, repair and other related issues pertinent to internet connectivity.*

7 USB

- Connect to this USB port a USB mass storage drive formatted as FAT32 or NTFS.
- When a USB drive is detected, the BluOS App displays a Player Notification indicating that a USB device has been inserted. Likewise, when the USB drive is removed, a notification appears to inform the user that the USB device has been disconnected.
- This will appear as USB under Music Services in the BluOS App.

8 DC IN

- Connect the connector end of the supplied Switch Mode Power Supply (SMPS) to the DC IN port before plugging the other end into the mains power outlet.

9 RESET

Use the RESET button to restore the CI S2 to factory default settings.

- Unplug the power cord to turn off the unit.
- Using an appropriate pointed tool, press and hold the RESET button, then plug the Switch Mode Power Supply (SMPS) into the mains power outlet.
- Release hold of the RESET button when the POWER LED indicator begins flashing red.
- Factory reset is complete once the unit restarts or reboots. The POWER LED indicator will flash green if there is no network connection and turn blue when a network connection is established.

10 SUBWOOFER OUT

- Connect SUBW OUT to the low-level input of corresponding powered subwoofer. Full range output signal is sent to the connected subwoofer. Note that SUBWOOFER OUT is available only for OUTPUT 1 (Main).
- Alternatively, both Zones (OUTPUT 1 and OUTPUT 2) can be paired to a compatible Bluesound network subwoofer.

11 OUTPUT 1 (MAIN), OUTPUT 2

- Use dual RCA-to-RCA cable to connect OUTPUT 1 and OUTPUT 2 to corresponding analog audio input of compatible devices such as amplifiers, receivers or other applicable devices.
- Output 1 (Main) = BluOS Zone 1 and Output 2 = BluOS Zone 2.

ACTIVE ZONES

The NAD CI S2 is a two-zone BluOS Music Streamer. It can also be configured for single zone operation by deactivating Zone 2 so it no longer appears in the BluOS App. The number of active zones on the CI S2 is managed through the web control panel.

To access the web control panel, enter the CI S2's IP address into your device's web browser connected to the same network. This will open the CI S2 **Control Panel**. Select **Active Zones**, which is set to **2** by default. To disable Zone 2, select **1**. You will then be prompted to reboot the player for the change to take effect.

Zone 2 can be reactivated at any time by following the same process and selecting **2** in the active zones' menu.

12 TRIGGER OUT (+/-)

- Use the supplied TRIGGER terminal block to connect the TRIGGER OUT (+/-) terminals to the corresponding TRIGGER IN terminals of a compatible device with a +12 Vdc input. Install the wired TRIGGER OUT terminal block into the TRIGGER OUT (+/-) terminals on the CI S2 rear panel.
- TRIGGER OUT provides 12 V when the CI S2 is powered ON and 0 V when the unit is in standby mode.

GENERAL SPECIFICATIONS**OPT IN, OUTPUT**

THD (20 Hz – 20 kHz)	<0.0008 % at 4 V _{out}
Signal-to-Noise Ratio	>120 dB (1 kHz)
Frequency response	20 Hz - 20 kHz, no subwoofer (± 0.5 dB)
Output Impedance	360 ohms
Maximum output voltage	>4 V (ref. digital source)
Crosstalk	<130 dB at 1 kHz

COAX IN, OUTPUT

THD (20 Hz – 20 kHz)	<0.0008 % at 4 V _{out}
Signal-to-Noise Ratio	>120 dB (1 kHz)
Frequency response	20 Hz - 20 kHz, no subwoofer (± 0.5 dB)
Output Impedance	360 ohms
Maximum output voltage	>4 V (ref. digital source)
Crosstalk	<130 dB at 1 kHz

ANALOG IN, OUTPUT

THD (20 Hz – 20 kHz)	<0.008 % at 3.5 V _{out}
Signal-to-Noise Ratio	>100 dB (1 kHz)
Frequency response	20 Hz - 20 kHz, no subwoofer (± 0.5 dB)
Input impedance	28 kohms
Output Impedance	360 ohms
Maximum input signal	<2 V _{rms} (0.008% THD)
Maximum output voltage	>3.5 V (ref. analog source)
Crosstalk	<110 dB at 1 kHz

OPT IN, SUBWOOFER OUT

THD (50 Hz)	<0.008 % at 4.5 V _{out}
Signal-to-Noise Ratio	>100 dB (1 kHz)
Output Impedance	600 ohms
Maximum output voltage	>4.5 V (ref. digital source)

COAX IN, SUBWOOFER OUT

THD (50 Hz)	<0.008 % at 4.5 V _{out}
Signal-to-Noise Ratio	>100 dB (1 kHz)
Output Impedance	600 ohms
Maximum output voltage	>4.5 V (ref. digital source)

ANALOG IN, SUBWOOFER OUT

THD (50 Hz)	<0.01 % at 4.5 V _{out}
Signal-to-Noise Ratio	>100 dB (1 kHz)
Input impedance	28 kohms
Output impedance	600 ohms
Maximum input signal	2.0 V _{rms} (0.008 % THD)
Maximum output voltage	>4.5 V (ref. analog source)

DIMENSION AND WEIGHT

Gross dimensions (W x H x D)	230 x 150 x 370 mm
	(9 1/8 x 6 x 14 5/8 inches)
Net weight	1.3 kg (2.9 lbs)
Shipping weight	2.5 kg (5.5 lbs)

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www.NADelectronics.com

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