Analogue Duo
User Guide

Congratulations on becoming an Analogue Duo owner.

A tribute to the original NEC console

Out of the box, Duo is compatible with the TurboGrafx-16, PC Engine, Supergrafx & CD-ROM² game libraries.

Sync up any wireless 8BitDo Bluetooth or 2.4g controller directly to Duo for wireless play.
Up to 5 player support (including miniDIN). You can connect controllers directly via wired USB, too.

Some features coming in OS v1.3.

What's in the box
—   Analogue Duo
—   USB-C Power Supply
—   HDMI cable
—   USB-C cable

Getting Started

To use Duo, connect the power supply to the USB-C cable and the cable to Duo. Plug the power supply into a standard AC outlet.

Duo has two USB ports which can connect and charge controllers and an original style miniDIN connector for original controllers. Duo may receive input from up to four Bluetooth controllers, two 8BitDo 2.4G controllers or two USB controllers. Up to four controllers can be connected simulatiously using any combination of these inputs. A fifth controller can be connected via the original miniDIN connection or by using an original TurboTap.

When you first use Duo the system will automatically search for a wireless controller to pair with - indicated by a flashing white LED. After you pair a controller, you can activate that controller (typically with the Start button) to turn on Duo without having to press the power button.

Upgrading Duo's OS and Firmware

In order to Upgrade Duo's OS and Firmware please visit https://www.analogue.co/support/duo to receive the most recent release. You will see an update bar on your display during the update process. If power is lost during the update, restart the update process again after power is restored.

Power LED Status

1	LED Solid White	Power is On
2	LED Blinking White	CD Ejecting
3	LED Solid Purple	System Sleep

Controller LED Status

| 1 | LED Blinking White | Pairing |
| 2 | LED Solid White | Connected |

Ports and Indicators

Power Button
Press to power on or wake Duo. Hold to power off Duo.

Eject Button
Press to eject the CD

HDMI Port
Output video and audio from Analogue Duo to your display or receiver.

USB Ports x 2
Connect and charge your controllers here.

Power Port
Insert the USB-C Cable and connect it to the USB-C Power Supply to power Duo.

Pairing Button
Used primarily for manual pairing of wireless controllers.

Controller LEDs
Indicate whether Player 1 - 4 is connected or pairing with Duo.

Wired Controllers

Plug any hardwired USB controller that Duo supports into a USB port and it will instantly connect to Duo. You can also use and charge any supported wireless controller as a wired USB controller by adapting it with a USB cable.

Original Controllers

Duo supports original controllers via the miniDIN connector. Additionally, TurboTap can be connected here for up to five player support with original controllers.

Controllers - Dock 1.1 beta Firmware Supported Controllers

- Switch Pro (and variants)
- Switch Joycon
- Wiiu Pro
- Wiimote
- Stadia

- Xbox One
- PS3
- PS4
- PS5
- Turbo mini

- 8BitDo Pro 2
- 8BitDo Zero 2
- 8BitDo Lite
- 8BitDo Lite 2
- 8BitDo M30
- 8BitDo SN30
- 8BitDo SN30 Pro
- 8BitDo SN30 Pro+
- 8BitDo N30 Pro
- 8BitDo N30 Pro 2
- 8BitDo Arcade Stick (BT & Wired USB only)
- 8BitDo SNK NeoGeo

- 2.4g N30
- 2.4g N30 (Noir)
- 2.4g SN30
- 2.4g SN30 Classic
- 2.4g SF30
- 2.4g M30
- 2.4g M30 Classic
- 2.4g PCE

Pairing controllers to Duo

1. Press the pairing button on the left side of Duo or select "Pair Controller" from the OS menu. A Controller LED indicator will start to blink. Duo is now in Pairing mode.
2. Put your controller in pairing mode by pressing the pairing button.
3. Your controller will pair to Duo. Controller LED indicator will become solid when a controller is paired, or wired controller connected to USB port.
4. Pair additional controllers by repeating the above steps.S

8bitdo Bluetooth Controllers should be put in X-input mode.

Pairing your PS4 controller: press and hold the PS button and Share button to enter pairing mode.

2.4g controllers will require new firmware to work properly with Duo and will disable compatibility with original NES, SNES, Genesis and USB controller port receivers. The firmware update can be reverted by the same method indicated to update the firmware.

+ If you experience any connectivity issues, please update your controller to the latest firmware at support.8bitdo.com
+ For most recent 2.4g and bluetooth firmware support.8bitdo.com/analogue/Dock
+ All 8BitDo controllers must be in X INPUT mode. Refer to your 8bitdo controller's manual for instructions on how to do this.

Resetting Duo

Restting will erase all paired controllers from the Duo. Library and Memories will not be affected. Select and confirm "Gloabal Reset" from the OS menu.

Manual instructions: Plug the USB-C power into Duo. Wait 4 seconds then press and hold the pairing button until the Controller LEDs begin to flash green. Release the button before the green LEDs turn off. If successful, all four Controller LEDs will flash red.

Controllers

Main system(s) default button mapping across compatible game controllers.
<u>All Bluetooth 8BitDo controllers</u> need to be in X-Input mode before pairing.

		GBA						GB/GBC				Game Gear		
	Menu	A	B	L	R	ST	SE	A	B	ST	SE	1	2	ST

8BitDo Controllers

Wireless 2.4g

		GBA						GB/GBC				Game Gear		
N30	Home	A	B	-	-	ST	SE	A	B	ST	SE	B	A	ST
N30 Noir	Home	A	B	-	-	ST	SE	A	B	ST	SE	B	A	ST
SN30	↓ + SE	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
SN30 Classic	↓ + SE	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
SF30	↓ + SE	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
M30	Heart	B	A	L	R	ST	-	B	A	ST	-	A	B	ST
M30 Classic	Heart	B	A	L	R	ST	-	B	A	ST	-	A	B	ST
PCE	Heart	I	II			RN	SE	I	II	RN	SE	II	I	SE

Wireless Bluetooth

		GBA						GB/GBC				Game Gear		
Pro 2	Heart	A	B	L	R	ST	SE	A	B	ST	SE	A	B	ST
Zero 2	↓ + SE	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
Lite	Heart	A	B	L	R	+	-	A	B	+	-	B	A	+
Lite 2	Heart	A	B	L	R	+	-	A	B	+	-	B	A	+
M30	Heart	B	A	L	R	ST	-	B	A	ST	-	A	B	ST
SN30	↓ + SE	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
SN30 Pro	Heart	A	B	L	R	ST	SE	A	B	ST	SE	A	B	ST
SN30 Pro+	Heart	A	B	L	R	ST	SE	A	B	ST	SE	A	B	ST
N30 Pro	Home	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
N30 Pro 2	Home	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST
Arcade Stick	Heart	A	B	L	R	ST	SE	A	B	ST	SE	B	A	ST

		GBA						GB/GBC				Game Gear		
	Menu	A	B	L	R	ST	SE	A	B	ST	SE	1	2	ST

Non 8BitDo Controllers

Wireless

		GBA						GB/GBC				Game Gear		
Switch Pro	Home	A	B	L	R	+	-	A	B	+	-	B	A	+
Switch Joycon	Home	X	A	L	R	+ / -	Joy in	X	A	+ / -	Joy in	A	X	+ / -
Wiiu Pro	Home	A	B	L	R	+	-	A	B	+	-	B	A	+
Wiimote	Home	2	1	B	A	+	-	2	1	+	-	1	2	+
PS3	PS	O	X	L	R	ST	SE	O	X	ST	SE	X	O	ST
PS4	PS	O	X	L	R	Opt.	Share	O	X	Opt.	Share	X	O	Opt.
PS5	PS	O	X	L	R	Opt.	Share	O	X	Opt.	Share	X	O	Opt.
Xbox One	Xbox	B	A	L	R	Menu	View	B	A	Menu	View	A	B	Menu

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FCC regulatory conformance：

  This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a **Class B** digital device, pursuant to part 15 of the FCC Rules.　These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.　However, there is no guarantee that interference will not occur in a particular installation.　If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

  - Reorient or relocate the receiving antenna.

  - Increase the separation between the equipment and receiver.

  -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

  -Consult the dealer or an experienced radio/TV technician for help

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure

　　This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.