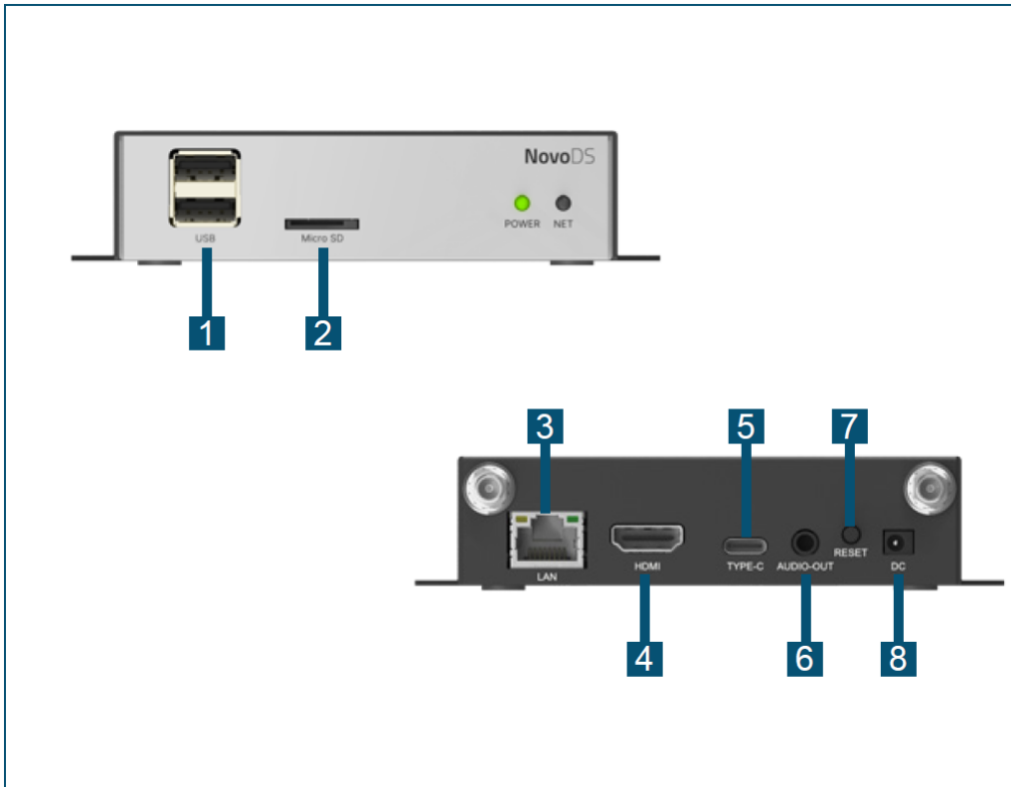


# 2.1 Hardware Ports

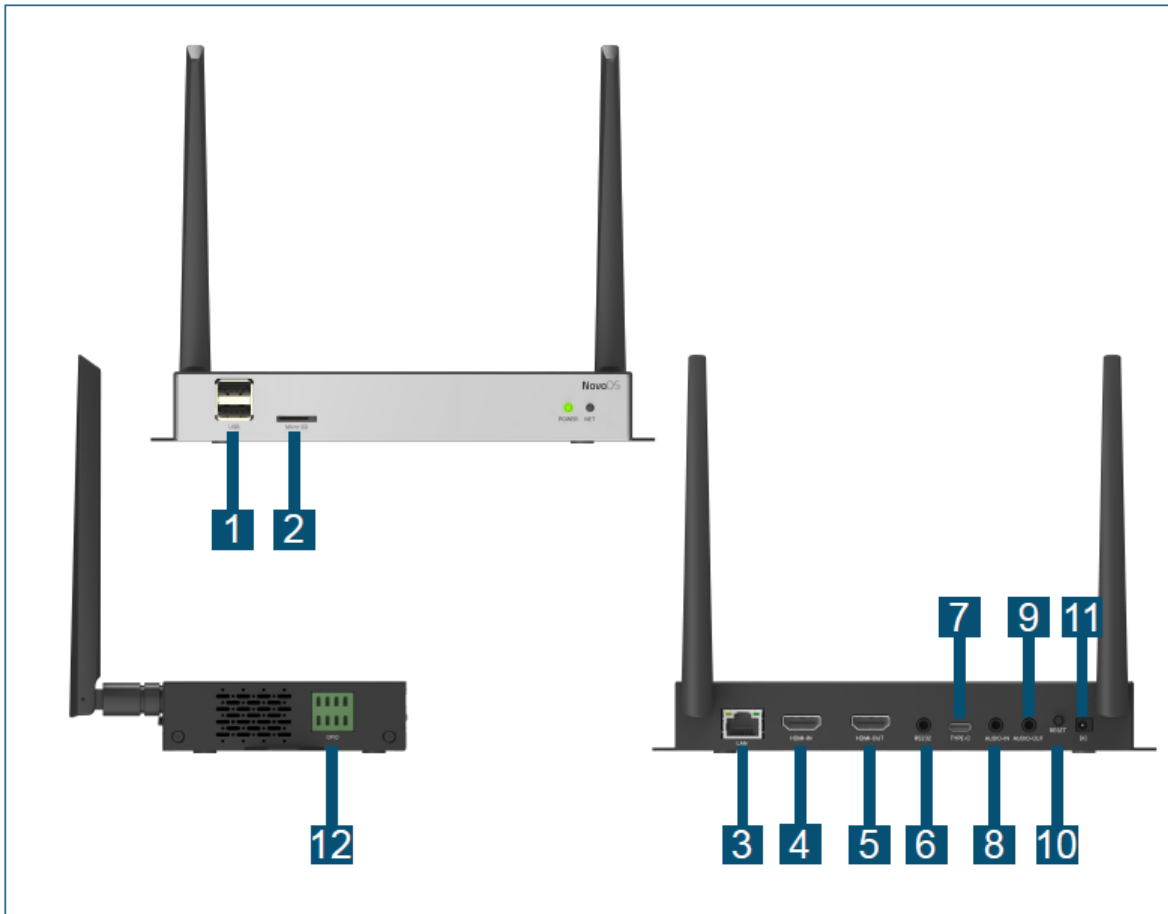
## DS110 and DS210



## DS110 and DS210

	Port	Function
1	Port USB-A	USB mouse/keyboard and USB thumb drive
2	microSD Card Slot	microSD card for additional storage
3	RJ45 Port	Ethernet connection
4	HDMI Port	Display output
5	Port Type-C	USB mouse/keyboard and USB thumb drive
6	Audio-Out Jack (3.5mm)	Stereo audio output
7	Reset Button	Device reset
8	DC 5V Power Jack	Power input

# DS310



## DS 310

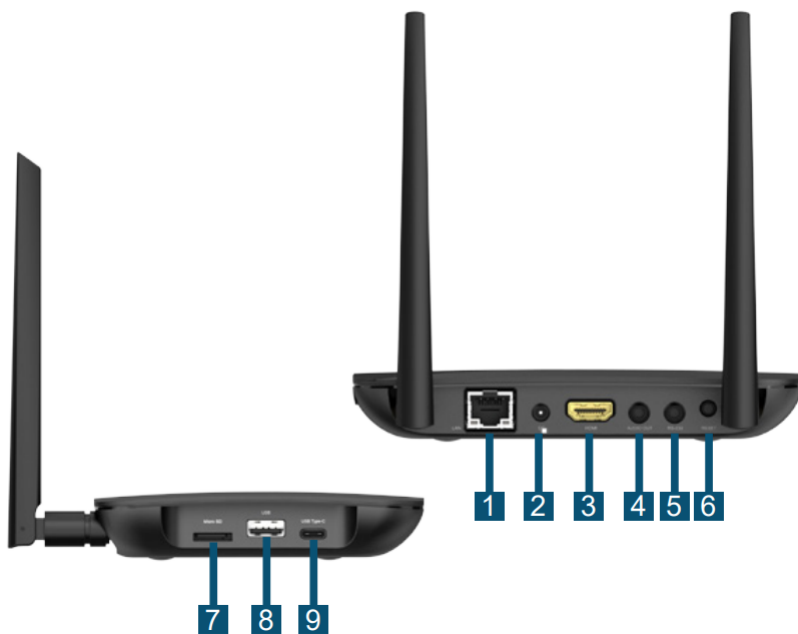
	Port	Function
1	Port USB-A	USB mouse/keyboard and USB thumb drive
2	microSD Card Slot	microSD card for additional storage
3	RJ45 Port	Ethernet connection
4	HDMI-In Port	Display input
5	HDMI-Out Port	Display output
6	RS-232 (3.5mm)	RS-232 serial data
7	Port Type-C	USB mouse/keyboard and USB thumb drive
8	Audio-In Jack (3.5mm)	audio input
9	Audio-Out Jack (3.5mm)	Stereo audio output

10	Reset Button	Device reset
11	DC 5V Power Jack	Power input
12	GPI0	<p>GPI0 ports for hardware extension, such as connecting to inputs like buttons and sensors, and/or, outputs like LED lighting and motor control.</p> <p>(1) The pin-out definition is shown in the picture below.</p> <p>(2) Connector type: Phoenix</p> <p>(3) Pin pitch: 3.81mm (0.15")</p>

6	5	4	3V3
1	2	3	GND

GPI0 Connector Pin-outs

## DS301



DS301

	Port	Function
1	RJ45 Port	Ethernet connection
2	DC 5V Power Jack	Power input

3	HDMI Port	Display output
4	Audio-Out Jack (3.5mm)	Stereo audio output
5	RS-232 Jack (3.5mm)	RS-232 control port
6	Reset Button	Device reset
7	microSD Card Slot	microSD card for additional storage
8	USB-A Port	USB mouse/keyboard and USB thumb drive
9	USB-C port	USB mouse/keyboard and USB thumb drive

## Connecting NovoDS Devices to Display

Step 1 : Connect the NovoDS to a display via the HDMI output port

Step 2 : Connect the AC-DC power adaptor to the DC 5V power jack

Step 3 (optional) : Connect an Ethernet cable to the RJ45 port (if you need to use LAN connection)

The device comes with a mounting bracket. Typically you can use it to attach the NovoDS device to the back of the display or on the wall.

