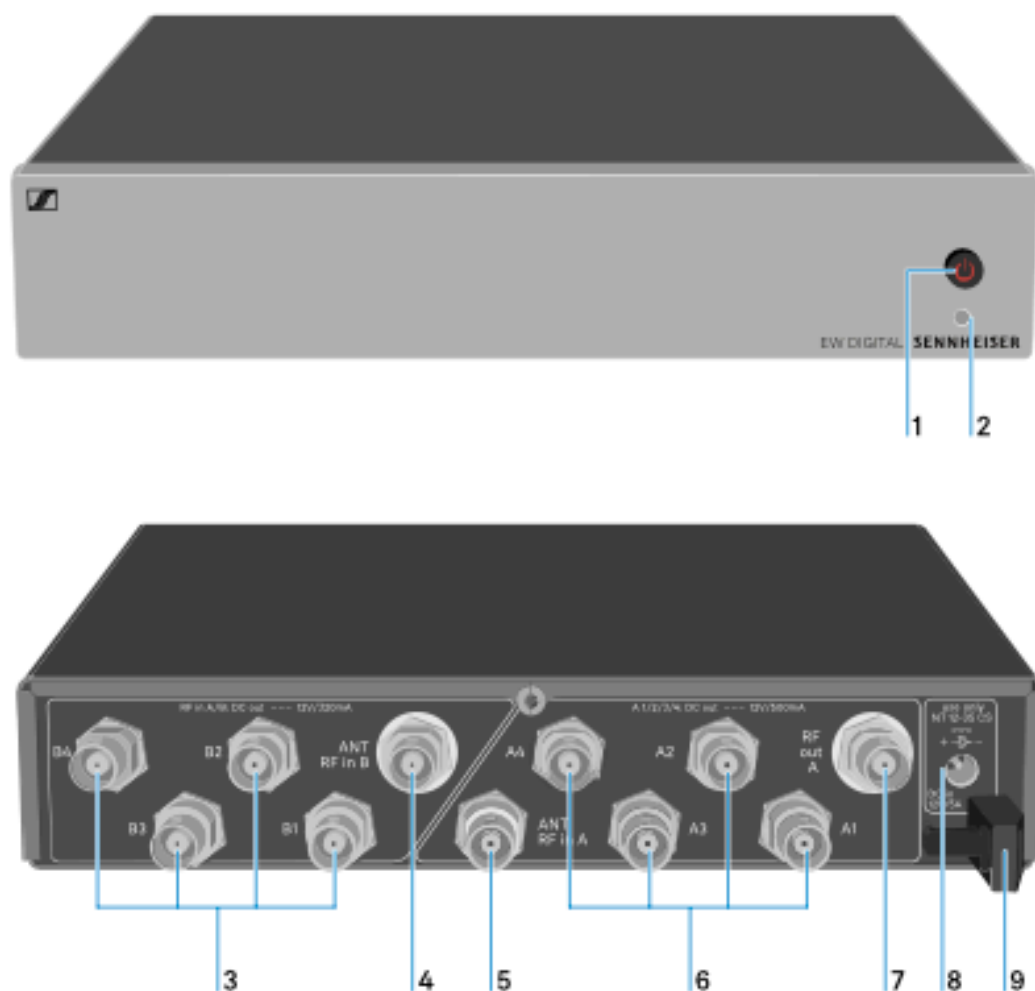


EW-D ASA antenna splitter

Product overview

- Connecting/disconnecting the EW-D ASA to/from the power supply system
- Connecting receivers to the EW-D ASA
- Connecting antennas
- Information on antenna amplifiers and cable lengths
- Configuring multi-channel systems
- Installing the EW-D ASA in a rack
- Switching the EW-D ASA on and off

Product overview



1 STANDBY button

- See [Switching the EW-D ASA on and off](#)

2 LED: Operation indicator

- See [Switching the EW-D ASA on and off](#)

3 4 BNC sockets B1 to B4

- RF outputs of diversity branch B for connection to the receiver
- See [Connecting receivers to the EW-D ASA](#)

4 ANT RF IN B BNC socket

- Antenna input of diversity branch B
- See [Connecting antennas](#)

5 ANT RF IN A BNC socket

- Antenna input of diversity branch A
- See [Connecting antennas](#)

6 4 BNC sockets A1 to A4

- RF outputs of diversity branch A for connection to the receiver
- Each one of these RF outputs can also provide power to an EW-D EM receiver
- See [Connecting receivers to the EW-D ASA](#)

7 RF OUT A BNC socket

- RF output only for connecting an additional ASA 214 to build an 8-channel diversity system
- See [Configuring multi-channel systems](#)

8 DC in socket

- To connect the NT 12-35 CS power supply unit
- See [Connecting/disconnecting the EW-D ASA to/from the power supply system](#)

9 Strain relief for the connection cable of the power supply unit

- See [Connecting/disconnecting the EW-D ASA to/from the power supply system](#)

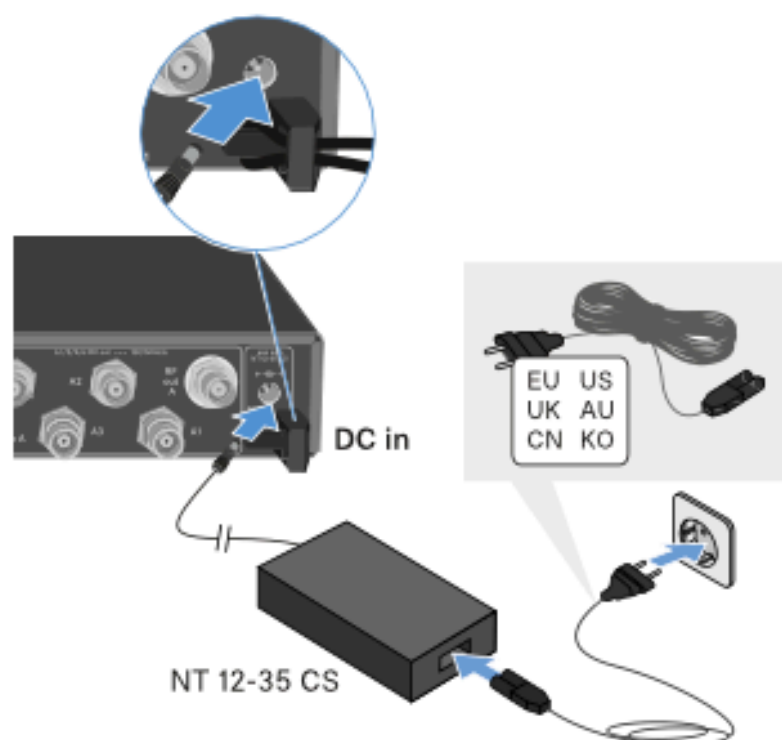
Connecting/disconnecting the EW-D ASA to/from the power supply system

To supply power to the EW-D ASA, the connected receivers (EW-D EM only) and any antenna amplifiers used, you will need the NT 12-35 CS power supply unit.

Use only the supplied NT 12-35 CS power supply unit. It is designed for your antenna splitter and ensures safe operation.

To connect the EW-D ASA antenna splitter to the power supply system:

- Plug the hollow jack plug of the power supply unit into the **DC in** socket of the antenna splitter.
- Pass the cable of the power supply unit through the strain relief.
- Connect one end of the power cord to the power supply unit and the other end to the wall socket.



To completely disconnect the EW-D ASA antenna splitter from the power supply system:

- Unplug the power cable from the wall socket.
- Unplug the hollow jack plug of the power supply unit from the **DC in** socket of the antenna splitter.

Connecting receivers to the EW-D ASA

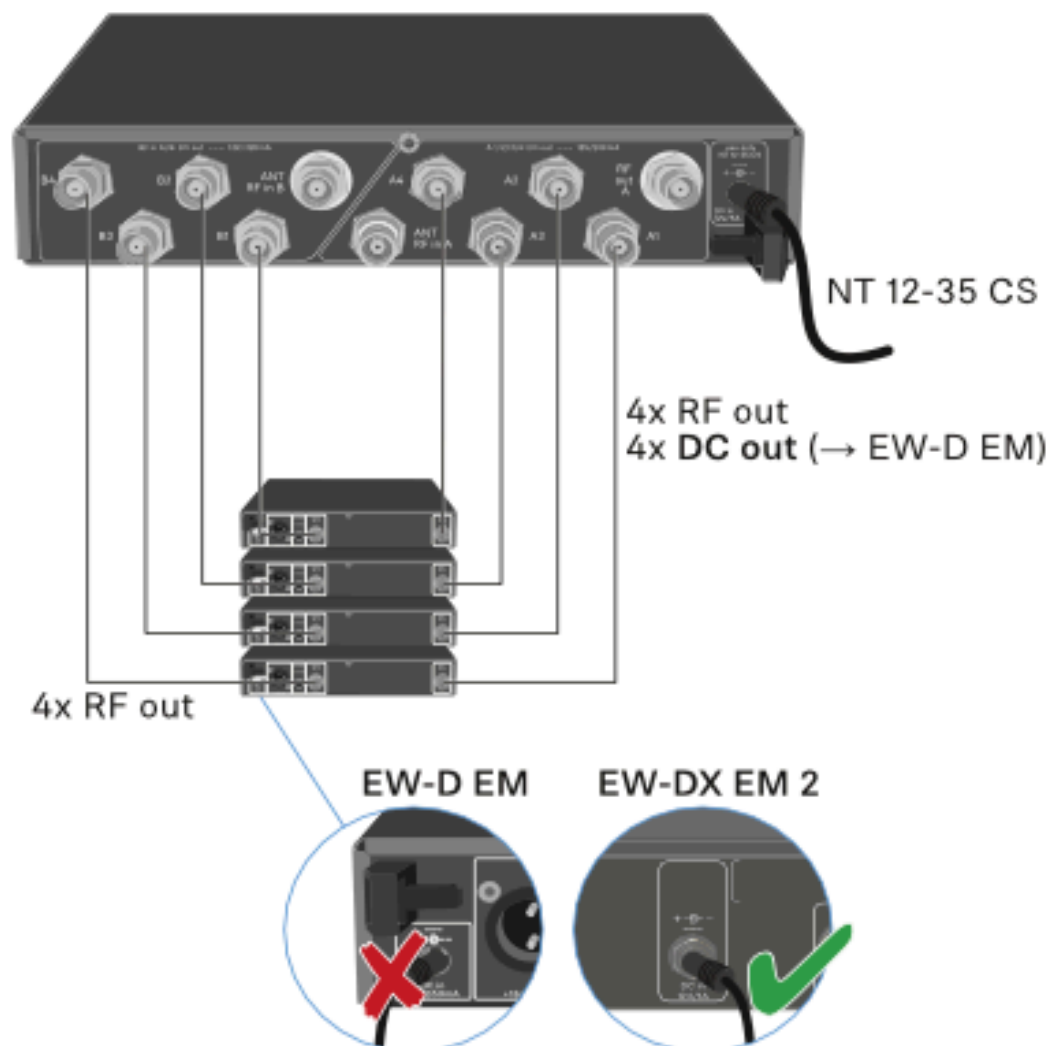
You can connect and operate up to four EW-D EM or EW-DX EM 2 rack receivers with the EW-D ASA.

To connect the receivers to the EW-D ASA antenna splitter:

- ▷ Connect one of the receiver's antenna inputs to one of the BNC sockets **A1** to **A4** using one of the supplied BNC cables.
- ➔ The **EW-D EM** receivers do not require their own power supply. They are powered via the BNC sockets **A1** to **A4**.

i The **EW-DX EM 2** receivers cannot be supplied with power via the BNC sockets. They need to be powered by the included power supply unit or by PoE.

- ▷ Connect the receiver's other antenna input to one of the BNC sockets **B1** to **B4** using one of the supplied BNC cables.

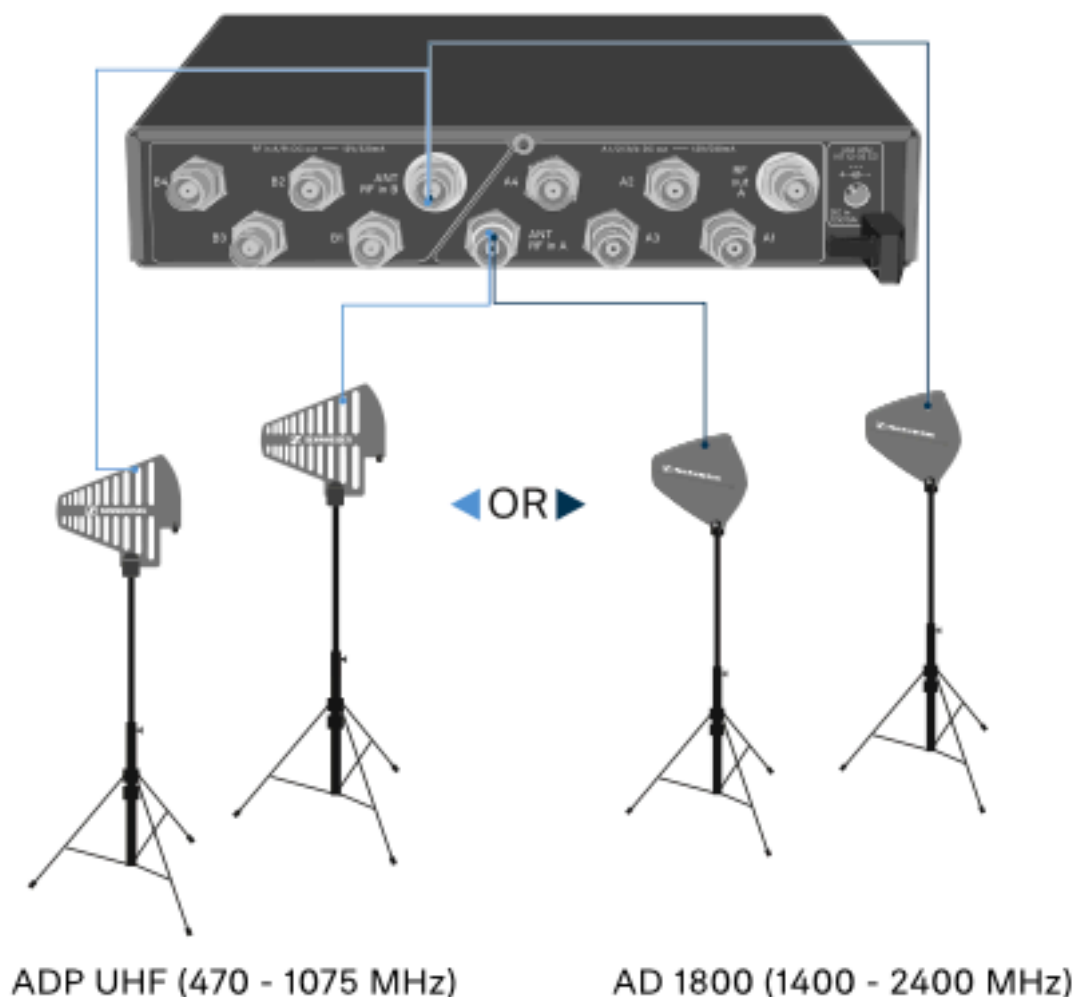


Connecting antennas

- i** To ensure optimal reception even in the case of poor reception conditions, we recommend using remote antennas.

Connecting remote antennas

- ▷ Mount an antenna each or a combination of an antenna and an antenna amplifier to the BNC sockets **ANT RF IN A** and **ANT RF IN B**.
- ▷ Refer to the instructions under [Information on antenna amplifiers and cable lengths](#).



Connecting rod antennas

- ▷ Mount the antennas to the BNC sockets **ANT RF IN A** and **ANT RF IN B**.
- ▷ Align the antennas in a V-shape in order to ensure the best possible reception.

Information on antenna amplifiers and cable lengths

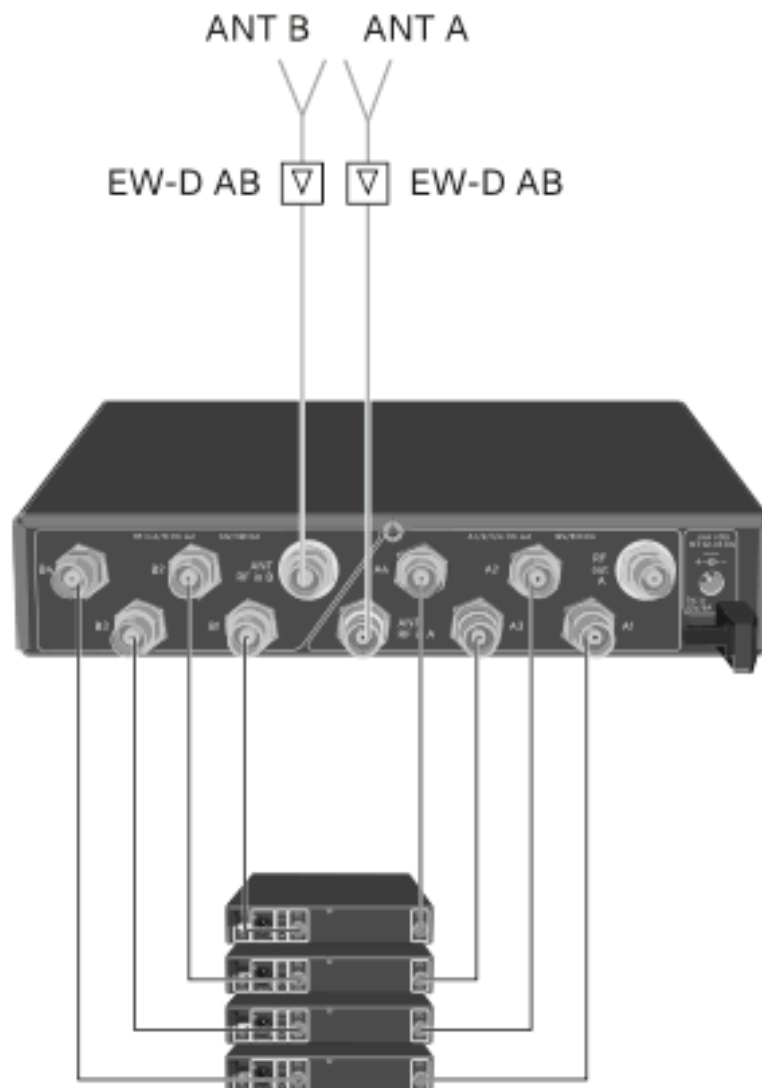
The following table shows which cable lengths require the use of the **EW-D AB** antenna amplifier as well as the maximum recommended cable lengths.

Frequency range around	Number of EW-D AB	Max. cable length RG 58	Max. cable length GZK 5000
500 MHz	0	8 m	16 m
	1	36 m	72 m
	2	64 m	128 m
700 MHz	0	7 m	14 m
	1	30 m	60 m
	2	53 m	106 m
900 MHz	0	6 m	12 m
	1	26 m	52 m
	2	46 m	92 m
1800 MHz	0	4 m	8 m
	1	16 m	36 m
	2	28 m	64 m

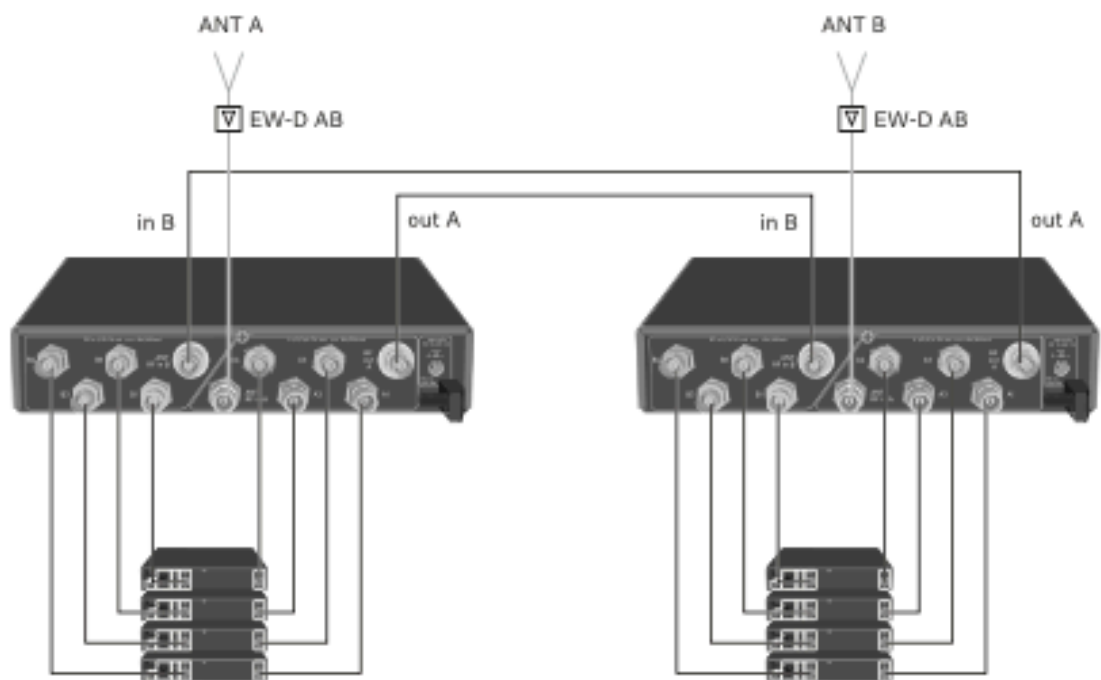
Configuring multi-channel systems

The following options for connecting multi-channel systems are possible:

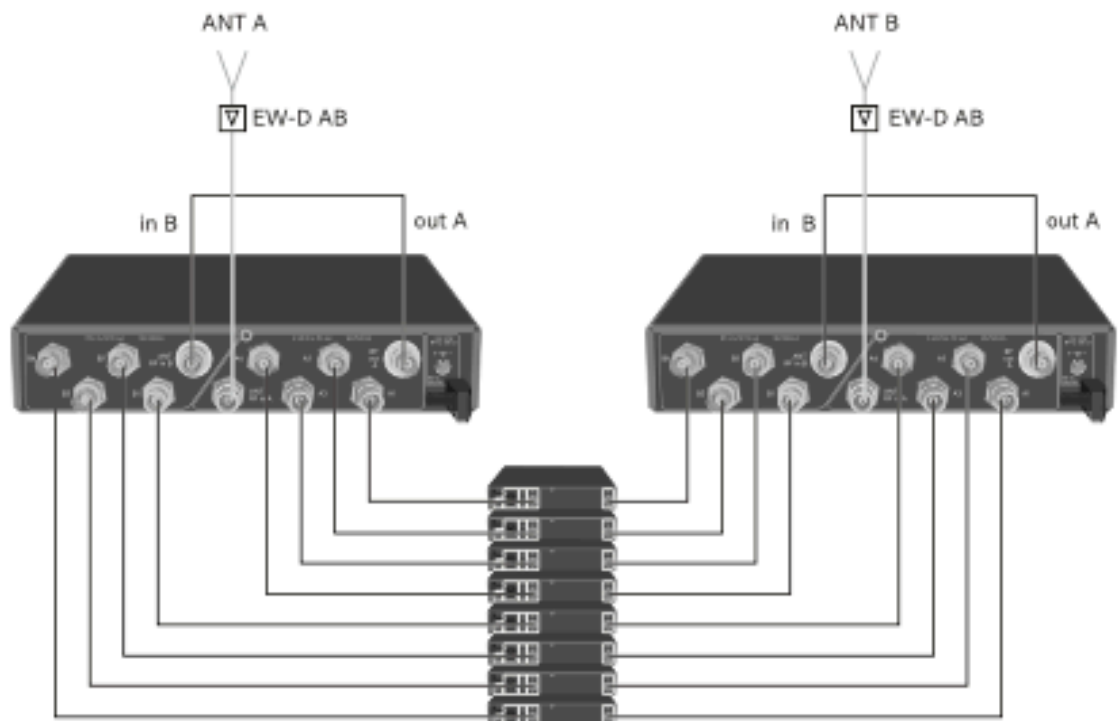
Option 1: Two antennas supply a 4-channel system



Option 2: Two 4-channel systems are interconnected



Option 3: Two antennas supply a 8-channel system



Switching the EW-D ASA on and off

To switch on the antenna splitter:

- ▷ Short-press the **STANDBY** button.



- ➡ The antenna splitter switches on and the power LED turns green.

The RF signals of the connected antennas are distributed to all connected receivers.

To switch the antenna splitter to standby mode:

- ▷ Press the **STANDBY** button for approx. 2 seconds.
 - ➡ The LED turns off. The connected antenna amplifiers are switched off. Connected receivers are switched off if they draw their supply voltage from the BNC sockets A1 to A4 (see [Connecting receivers to the EW-D ASA](#)).

To fully switch off the antenna splitter:

- ▷ Disconnect the antenna splitter from the power supply system by unplugging the power supply unit from the wall socket.
 - ➡ The LED turns off.