

Expert Sleepers – ES-9

- [Manual PDF](#)
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[Expert Sleepers ES-9 Manual PDF](#)

Expert Sleepers ES-9 – Quick Reference Cheat Sheet

Power & Installation

- **Power Connector:** Doepfer standard (10-pin).
- Red stripe = -12V (bottom of PCB)
- **Power Draw:**
 - +12V: 451 mA (max at 96kHz)
 - -12V: 133 mA
 - 5V: Not used

Panel Controls

Control	Type	Function
Volume Knob	Rotary & Push	Headphone output volume. Push & hold (>1s) toggles between "hosted" and "standalone" configs.
LEDs	4x	A: Power / B: USB Data / C: MIDI Out / D: MIDI In
Jumpers	Back Panel	JP1: Forces DFU boot mode for firmware update

Inputs and Outputs

Type	Location	Count	Connector	Voltage Range	Coupling	Notes
Analogue Inputs	Front	14	3.5mm TS	$\pm 10V$ (0dBFS)	DC	Use for audio or CV
Analogue Outputs	Front	8	3.5mm TS	$\pm 10V$ max	DC	Use for audio or CV
Balanced Outputs	Front	2	1/4" TRS	Line Level	AC	Not DC coupled (for monitors)
Headphone Output	Front	1	1/4" TRS	Line Level	DC	Mix of outs 1/2 & 3/4
S/PDIF In/Out	Front	2	Optical	Digital audio	N/A	
MIDI – Expansion	Rear Header	2	4-pin IDC	–	–	Use MIDI breakout
ES-5 Expander	Rear Header	1	10-pin IDC	–	–	For gate/trigger expansion

Socket Illumination: 3.5mm input/output jacks light RED (positive), BLUE (negative).

USB Host Operation

- **USB C port** connects to DAW; no power drawn from USB bus.
- No drivers needed for macOS/iOS/Linux; Windows driver available on [Expert Sleepers downloads](#).

Audio Channels Mapping (Default, DAW)

- **Main Outputs (1/4"):** 1/2
 - **Headphone Out:** Mix of 1/2 & 3/4
 - **S/PDIF Out:** 5/6
 - **ES-5 Out:** 7/8
 - **3.5mm Outputs:** 9–16
 - **3.5mm Inputs:** 1–14
 - **S/PDIF In:** 15/16
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Quick-Start Workflow

1. **Install ES-9 in Eurorack** → connect power cable (match -12V to red stripe)
 2. **Connect via USB** to your computer (use C-to-A or C-to-C cable).
 3. **Confirm DAW Device:** Select ES-9 in your DAW's audio preferences.
 4. **Monitor LEDs:** LED below USB C should light when connected.
 5. **Configure** with the ES-9 Config Tool ([download here](#); browser app requires Chromium-based browser).
 6. **Save Configuration** into either hosted or standalone memory slots.
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Advanced Features Cheat Sheet

Feature	Key Details
Mixers	

Feature	Key Details
	8x8 crosspoint (mono) mixers. Can route anything to anything.
DC Blocking	Switchable per input pair; keep ON for audio, OFF for CV.
Stereo Links	Links adjacent mixer channels for stereo processing.
EQ	4 bands per input, several filter types. Consumes DSP resources.
Mix Smoothing	Optional interpolation; use for MIDI-controlled mixing, live use.
MIDI Control	Macro mix controllable via MIDI CC (see manual for CC mapping).
5-pin DIN MIDI I/O	With MIDI breakout; 4-pin header pinout in manual.
Firmware Update	Use ExpertSleepersDFU tool + .dfu file; see update page
SysEx Protocol	Full SysEx support for config state/automation (see manual).

Back Panel Jumpers & Expansion

- **JP1:** Fit jumper to force DFU boot (firmware rescue if normal DFU fails).
- **GT1 (To ES-5):** 10-pin expansion to ES-5; red stripe down.
- **GT2 (MIDI breakout):** 4-pin header for 5-pin DIN MIDI.

Pinout:

Pin	Function
1	OUT (DIN pin 4)
2	OUT (DIN pin 5)
3	IN (DIN pin 5)
4	IN (DIN pin 4)

Troubleshooting LED Indicators

LED	Function
A	On = Powered
B	On = USB connected
C	MIDI from host → breakout (outbound)
D	MIDI from breakout → host (inbound)
All	At start: flash twice/sequence = normal.

Useful Links

- [Expert Sleepers ES-9 Manual \(PDF/HTML\)](#)
 - [Firmware & Config Tools](#)
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