

# 500 Series Edge Connector Pinout & Wiring Checklist

This document summarizes the standard 15-pin edge connector pinout for the 500 Series (VPR Alliance) format. It's designed to help with custom module design, testing, and wiring when using male edge connector PCBs such as the Analog Classics adapter. Always verify alignment and power rail orientation with your specific chassis documentation.

Pin	Function	Notes / Tips
1	Chassis Ground	Connect to module chassis or enclosure ground.
2	Output + (+4 dBu)	Balanced output hot pin.
3	Output + (-2 dBu)	Legacy/unbalanced output in some modules.
4	Output -	Balanced output cold side.
5	Audio Ground	Signal ground reference for audio I/O.
6	Stereo Link	Used for linking modules (e.g. compressors).
7	Input - (-2 dBu)	Legacy/unbalanced input side.
8	Input + (+4 dBu)	Balanced input hot.
9	Input + (-2 dBu)	Legacy/unbalanced input option.
10	Input + (+4 dBu)	Balanced input hot variant (some swap with pin 8).
11	Gain Trim / Reserved	Extra feature pin in some modules.
12	+16 V DC	Positive power rail.
13	0 V Common	Ground reference for power rails.
14	-16 V DC	Negative power rail.
15	+48 V DC	Phantom power for mic pre modules.

## Notes:

- Verify the connector orientation and keying before power-up.
- Pins 3, 7, 9, and 11 are often unused but may serve special functions.
- Observe proper grounding practices to minimize hum and interference.
- The +48 V rail (pin 15) should only be used if your module requires phantom power.