Features

- Super low noise DC voltage outputs
- Independent multi-channel voltage rail
- Power ON & Power OK signal
- High input regulation and high load regulation
- Mechanical compatible with Streacom FC-10 passive case
- ATX compatible connector pin assignment
- Very low standby power consumption

Description

Applications

- Control & Audio PC
- Recording PC in Studio
- Audiophile Audio Server

LPC250-BLUE true linear power supply designed for audio PC. Mechanically fully compatible with Streacom FC-10 passive cooling case equipped by a micro-ATX mainboard, but it can be assembled into any other PC case with additional mounting plate and heatsink. The 250VA impregnated toroidal core transformer with multiple secondary windings guarantees high isolation between primer and seconder windings thanks to the shielding windings. The RC snubber and Schottky diodes ensure clean rectification and the high reliability 310.000µF aluminum electrolytic capacitor puffer bank allows smooth DC and high peak current for the regulators. The MOSFET output stages capable for 20A continuous current are controlled by a low noise operational amplifier. The precision bandgap references ensure high initial accuracy and low temperature drift. An improved FR4 material and 4 layers printed circuit board (PCB) is populated on both side by SMD and THD components to optimize the signal path.

Model encoding example: LPC250-BLUE

Recommended transformer rated wattage = 250 [VA]

Series name = LPC (Linear Power Supply for Audio PC)





		SP	ECIFICAT	ION				
INPUT	Voltage range	220-240 VAC / 2 x 12.5 VAC + 2 x 7.5 VAC						
	Frequency	50/60 Hz						
	Fuse	3.15 AT, 20 x 5 mm						
	Connector	IEC C14 inlet for primer / 5.08MM HORIZONTAL CABLE ENTRY PLUG						
OUTPUT	Part Number	LPC250-BLUE						
	Nominal Voltages	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	+12 V	+5 V
	Rated Currents	12 A	10 A	8 A	3 A	1 A	2 A	2 A
	Protection	No overcurrent and no overvoltage protection						
	Noise	<2 μV typical @ bandwidth: 20 Hz to 20 kHz						
	Initial Accuracy	<1% typical, 2% max (5% max @ +5 VSB and -12 V)						
	Temperature coefficient	<1 mV/C°						
	Line regulation	<-80 dB(V/V) @ 1 kHz						
	Load regulation	<-40 dB(V/A) @ 1 kHz						
	Connector type	Molex Mini-Fit #4.2mm, ATX 24pin, CPU 8 pin, EXT 4 pin						
	Connector pinouts	see cable-assembly drawings						
ENVIRONMENT	Working temperature	-10 C° to +40 C°						
	Working Humidity	20 to 90% RH, non-condensing						
OTHERS	Indicator	3pcs Blue LEDs, Standby / + Power ON / + Power OK						
	Working principle	Toroidal transformer, Schottky rectifier, Power MOSFET + opamp regulator						
	Dimension	120 x 72 x 140 mm [Width x Height x Depth] (with 40mm spacers)						
	Weight	TBD grams (without transformer)						
PACKAGING	Material	Corrugated paper and foam						
	Box Content	 IEC inlet, fuseholder + fuse 250VA toroidal transformer LPC250-BLUE Power Supply (PCB) Module ATX24-24 mainboard cable, 400mm ATX8-ATX8 CPU cable, 400mm ATX4 - Molex (4 pin) cable for peripherals (USB, LAN cards), 400mm Mounting screw with washer and nut Mica wafer Insulation ring for TO-220 devices 						
	Dimension	TBD						
	Weight	TBD	<u> </u>					<u> </u>



