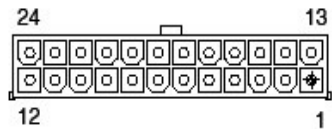


Using Power Mac G5 (2004) PSU as ATX Supply for PC Motherboard (in Mac G5 case)
(read this as to how to rewire the ORIGINAL Mac PSU to mate to ATX standard conventions, patch sources from LEFT to RIGHT)

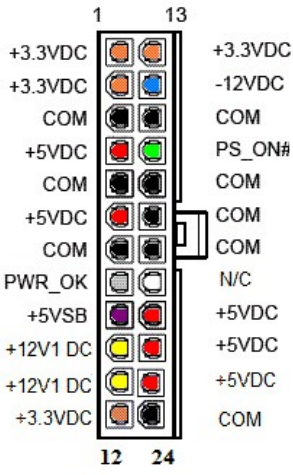
Power Mac			P1 Connector		
Pin #	Signal	Color	routed to	Pin#	Signal
1	+5Vstb	purple/black	ATX main	13	GND
2	GND	black	ATX main	14	PowerOn
3	FANTach	brown/black	not used	15	GND
4	GND	black	ATX main	16	reserved/NC
5	Reserved/NC			17	GND
6	GND	black	ATX main	18	RTNaudio
7	+12Vaudio	brown	not used	19	GND
8	GND	black	ATX main	20	+5Vsense
9	+3.3Vsense	purple	ATX main	21	GND
10	GND	black	ATX main	22	-12V
11	GND	black	ATX main	23	GND
12	Reserved/NC			24	reserved/NC

Power Supply P1 Connector



Note: Socket view

ATX			24 pin header		
Pin #	Signal	Color	sourced by	Pin#	Signal
1	+3.3V	orange	P2-pin1 + P1-pin9	13	+3.3V
2	+3.3V	orange	P2-pin2	14	-12V
3	GND	black	P1-pin2	15	GND
4	+5V	red	P2-pin9 shared	16	PowerOn
5	GND	black	P1-pin4	17	GND
6	+5V	red	P2-pin9 shared	18	GND
7	GND	black	P1-pin6	19	GND
8	PWR_OK	grey	NOT available/NC	20	reserved NC
9	+5Vstb	purple	P1-pin1	21	+5V
10	+12V	yellow	P2-pin14	22	+5V
11	+12V	yellow	P2-pin15	23	+5V
12	+3.3V	orange	P2-pin4	24	GND

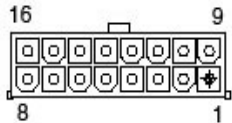


Version 2.0

PIN SIDE VIEW!

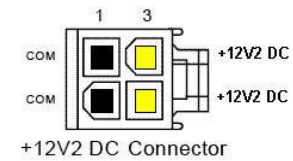
Power Mac			P2 Connector		
Pin #	Signal	Color	routed to	Pin#	Signal
1	+3.3V	purple	ATX main	9	+5V
2	+3.3V	purple	ATX main	10	+5V
3	+3.3V	purple	ATX main	11	+5V
4	+3.3V	purple	ATX main	12	+12V3
5	reserved/NC			13	+12V3
6	+12V fan (+12V2)	brown	not used	14	+12V1
7	+12V fan (+12V2)	brown	not used	15	+12V1
8	+25V	blue	not used	16	RTNfan(GND)

Power Supply P2 Connector



Note: Socket view

ATX			Aux header (12VDC supply)		
Pin #	Signal	Color		Pin#	Signal
1	GND	black	P1-pin21	3	+12V
2	GND	black	P1-pin23	4	+12V

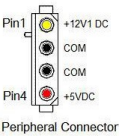


PIN SIDE VIEW!

Power Mac			P3 Connector		
Pin #	Signal	Color	Pin#	Signal	Color
1	+5V	grey	5	+5V	grey
2	GND	black	6	GND	black
3	GND	black	7	GND	black
4	+12V2	brown	8	+12V2	brown

ATX Molex/SATA headers

no changes, feed to drive bay and HDDs



Sources:
http://www.javrullan.es/en/PowerMac_G5_PSU_Repair.html
<http://www.smpspowersupply.com/connectors-pinouts.html>