



EPS-1290

900W



Application Reference

- Pedestal Server/Workstation, Gaming PC



Features



Electrical Specifications

- Input Voltage 90 ~ 264 VAC
Auto Voltage Sensing
- Frequency 47 ~ 63 Hz
- Input current 15 Arms @ 100 VAC
8 Arms @ 240 VAC
- Holdup Time > 17 ms @
75% Load

Environmental Specifications

- Operating/Storage Temp. 0~40°C/-20~60°C
- Operating/Storage Humidity 85% / 95%
- Operating/Storage Altitude 10,000/50,000 FT
- MTBF 100,000 HRS
- Safety Approvals cUL, TUV, CB
- EMC Regulations FCC, CE

Output Specifications

| Voltage | Regulation Load | Minimum Load | Maximum Load | Peak |
|---------|-----------------|--------------|--------------|-------|
| +3.3V | +/- 3% | 0A | 20.0A | -- |
| +5.0V | +/- 3% | 0.5A | 25.0A | -- |
| +12.0V1 | +/- 3% | 0.1A | 25.0A | 26.0A |
| +12.0V2 | +/- 3% | 0A | 25.0A | 26.0A |
| +12.0V3 | +/- 3% | 0A | 35.0A | 35.0A |
| +12.0V4 | +/- 3% | 0A | 28.0A | 28.0A |
| -12.0V | +/- 10% | 0A | 0.5A | 0.5A |
| +5 Vsb | +/- 3% | 0.1A | 2.0A | 2.5A |

(*) Total maximum combines load output on +3.3V and +5V rails should not exceed 180 Watts.

(**) The maximum total combined output current on 12V rail is 80A at Nominal and 85A at Peak Load.

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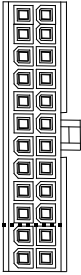
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Wire Harness

Description

P1 - Main Power



P2 - 8 Pin CPU-VR Power Connector



P3, P5 - PCI-Exp 8 Pin Power Connector



P4, P6 - PCI-Exp 8 Pin Power Connector



P7 - P12- Peripheral



P13 - Floppy



P14- P19 - SATA



Connector Housing

Molex 44476-1111 or equivalent (20|4 Split)

| | | | | | |
|----|--------------|--------|----|--------|----------|
| 1 | Orange | +3.3V | 13 | Orange | +3.3V |
| 2 | Orange | +3.3V | 14 | Blue | -12VDC |
| 3 | Black | GND | 15 | Black | GND |
| 4 | Red | +5V | 16 | Green | PS_ON |
| 5 | Black | GND | 17 | Black | GND |
| 6 | Red | +5V | 18 | Black | GND |
| 7 | Black | GND | 19 | Black | GND |
| 8 | Gray | PWR OK | 20 | N/E | Reserved |
| 9 | Purple | 5 VSB | 21 | Red | +5V |
| 10 | Yellow/Black | +12V1 | 22 | Red | +5V |
| 11 | Yellow/Black | +12V1 | 23 | Red | +5V |
| 12 | Orange | +3.3V | 24 | Black | GND |

Molex 44476-1111 or equivalent (4|4 Split)

| | | | | | |
|---|-------|-----|---|--------------|-------|
| 1 | Black | GND | 5 | Yellow/Black | +12V2 |
| 2 | Black | GND | 6 | Yellow/Black | +12V2 |
| 3 | Black | GND | 7 | Yellow/Black | +12V2 |
| 4 | Black | GND | 8 | Yellow/Black | +12V2 |

Molex 45559-0002 or equivalent (6|2 Split)

| | | | | | |
|---|---------|--------------|---|-------|-----|
| 1 | Yellow* | +12V3, +12V4 | 5 | Black | GND |
| 2 | Yellow* | +12V3, +12V4 | 6 | Black | GND |
| 3 | Yellow* | +12V3, +12V4 | 7 | Black | GND |
| 4 | Black | GND | 8 | Black | GND |

Molex 45559-0002 or equivalent

| | | | | | |
|---|---------|--------------|---|-------|-----|
| 1 | Yellow* | +12V3, +12V4 | 4 | Black | GND |
| 2 | Yellow* | +12V3, +12V4 | 5 | Black | GND |
| 3 | Yellow* | +12V3, +12V4 | 6 | Black | GND |

*Yellow/Blue Stripe: +12V3, Yellow/Green stripe: +12V4

Molex 8981-04P of Equivalent

| | | |
|---|--------------|-------|
| 1 | Yellow/Black | +12V1 |
| 2 | Black | GND |
| 3 | Black | GND |
| 4 | Red | +5V |

AMP 171822-4 or Equivalent

| | | |
|---|--------------|-------|
| 1 | Red | +5V |
| 2 | Black | GND |
| 3 | Black | GND |
| 4 | Yellow/Black | +12V1 |

Molex 89751 or Equivalent

| | | |
|---|--------------|-------|
| 1 | Yellow/Black | +12V1 |
| 2 | Black | GND |
| 3 | Red | +5V |
| 4 | Black | GND |
| 5 | Orange | +3.3V |

ATX&EPS12V

Dimension (WxLxH)

- 150 x 140 x 86 (mm)
- 5.9 x 5.5 x 3.38 (inch)

Cooling Fan

- 12V DC, 120mm

Notes

- Pictures, drawing and specification subject to change without notice. All new processors support will be updated once official announced by vendors
- All company logo and legal name belong to original company. All copyright reserved by Enhance Electronics.
- One-Year Standard Warranty
- Last Update: 9/30/2009