



ENP-7020B

FlexATX

Application Reference

- Industrial Panel PC, External NAS, SFF Desktop PC



Features



Electrical Specifications

- Input Voltage 100 – 240 VAC Auto Sensing
- Frequency 47 ~ 63 Hz
- Input current 6.0 Arms @ 100 VAC
3.0 Arms @ 240 VAC
- Holdup Time 16 ms @ Full Load

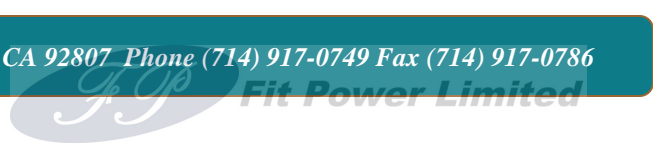
Output Specifications

| Voltage | Regulation Load | Minimum Load | Maximum Load | Peak |
|---------|-----------------|--------------|--------------|-------|
| +3.3V | +/-5% | 0.1A | 13.0A | -- |
| +5.0V | +/- 5% | 0.2A | 14.0A | -- |
| +12.0V1 | +/- 5% | 0.6A | 14.0A | 16.0A |
| +12.0V2 | +/- 5% | 0.6A | 14.0A | 16.0A |
| -12.0V | +/- 10% | 0A | 0.3A | -- |
| +5 Vsb | +/- 5% | 0A | 2.0A | 2.5A |

(*) Total maximum combines load output on +3.3V and +5V rail shall not exceed 80 Watts

Environmental Specifications

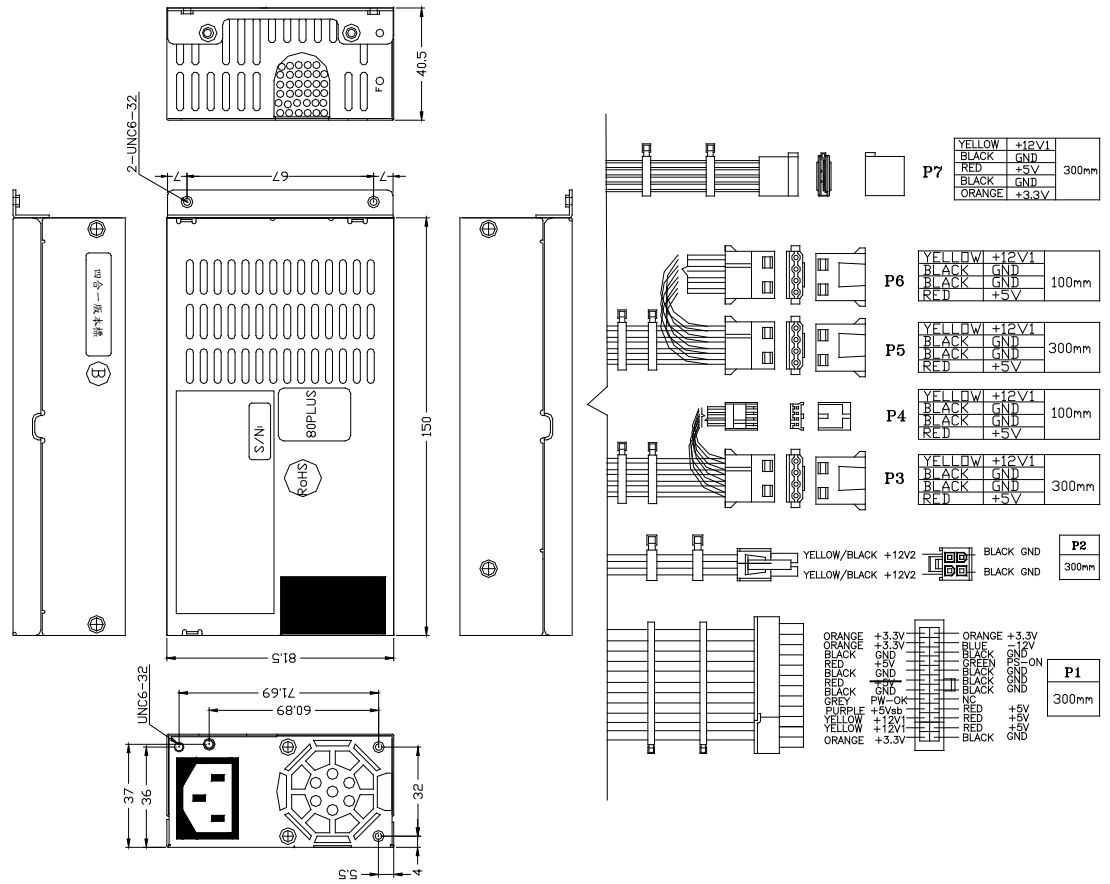
- Protection OPP/OVP/SCP/NLP
- Operating/Storage Temp. 0~40°C/-40~70°C
- Operating/Storage Humidity 85% / 95%
- Operating/Storage Altitude 10,000/50,000 FT
- MTBF 100,000 HRS
- EMC Regulations FCC, CE



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Mechanical Drawing



Main power 24(20|4) pin - P1



Aux12V(4 pin) - P6



SATA - P7



IDE Drive - P2,P4 & P5



FDD Drive - P3



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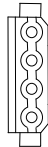
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Wire Harness

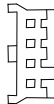
Description

P1 - Main Power

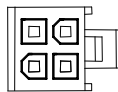
P2, P4 to P5 – Peripheral



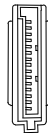
P3 – Floppy



P6 – 4 Pin Processor Power



P7 – Serial ATA



Dimension (WxLxH)

- 82 x 150 x 40.5 (mm)
- 3.2 x 5.9 x 1.6 (inch)

Cooling Fan

- 12V DC, 40 x 40 x 20 mm

Connector Housing

Molex 39-01-2200 or Equivalent

| | | | | | |
|----|--------|--------|----|--------|----------|
| 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 | +12V1 | 22 | Red | +5V |
| 11 | Yellow | +12V1 | 23 | Red | +5V |
| 12 | Orange | +3.3V | 24 | Black | GND |

Molex 8981-04P or Equivalent

| | | |
|---|--------|-------|
| 1 | Yellow | +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 | +12V1 |

Molex 39-01-2040 or Equivalent

| | | | | | | |
|---|-------|-----|---|--------|-------|-------|
| 1 | Black | GND | 3 | Yellow | Black | +12V2 |
| 2 | Black | GND | 4 | Yellow | Black | +12V2 |

Molex 88751 or Equivalent

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

Notes

•Specification subject to change without notice. All new processors support will be updated once official announced by vendors

•Last Update: 9/30/2009