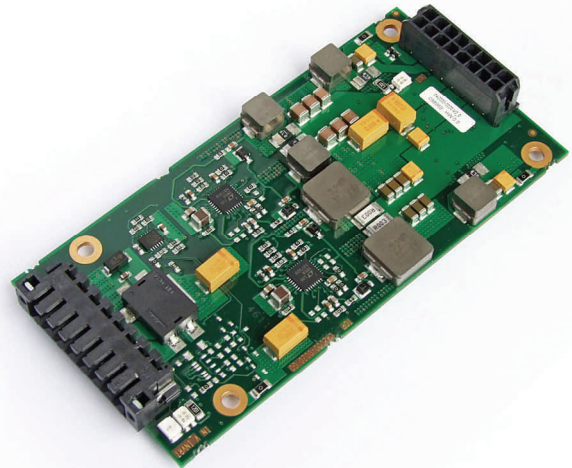




ADLPS35-150, 150W 2"x4" ATX Power Supply

Features

- Small 2"x4" (50mm x 102mm) Footprint
- Chassis and PC/104 Mounting Plates Optional
- Two Variants Available:
ADLPS35-150-5: Input: 7-36V, Output: 5V, 5VS, 3.3V
ADLPS35-150-12: Input: 14-36V, Output: 5V, 5VS, 3.3V, 12V
- Voltage and Current Specifications (common all variants):
Maximum Input Current = 15A
Maximum Power = 150W Combined
Available Output Current: 5VS/5A, 5V/20A, 3.3V/5A, 12V/10A
- Input Protection:
Overcurrent
Overvoltage / Undervoltage / Surge
Reverse Voltage
- Output Protection:
Voltage Out of Range (monitored via PWRGD)
Short-circuit
- ATX Compliant Signals Available (PS-ON, PWRGD etc.)
- Temperature Range: -40C to +85C
- Minimal Cooling Required: Chassis Heatspreader or PC/104 Mounting Plate Provide Sufficient Cooling for -40C to +85C Operation



Ordering Information

| Item Code | Part # | Description |
|--------------------|----------|---|
| ADLPS35-150-5 | 293023 | ADLPS35-150-5, 5V, 5VS, 3.3V, ET |
| ADLPS35-150-12 | 293024 | ADLPS35-150-12, 5V, 5VS, 12V, 3.3V, ET |
| | | *input connector included. |
| Accessories | | |
| ADLPS35-150-104MT | 293029 | ADLPS35-150 PC/104 mounting plate with hardware kit |
| ADLPC35-150-HSP | 293027 | ADLPS35-150 Heat spreader for chassis mount with hardware kit |
| ADLPS35CB-XPWR-5 | 100-9870 | ADLPS35-150, 16P to 10P uFit conn, 5V ATX Power Cable |
| ADLPS35CB-XPWR-12 | 100-9871 | ADLPS35-150, 16P to 10P uFit conn, 5V/12V ATX Power Cable |
| MILCOTS-FILTER | 293031 | MIL-STD 704/1275/461 Input Filter; 120w max. |

Description

The ADLPS35-150 power supply board is designed to meet the needs of industrial and embedded motherboards by providing robust ATX voltages (5V, 5VS, 3.3V, 12V) in a small form factor power supply designed for -40C to +85C operation. Its small 2"x4" size (50mm x 102mm) allows it to fit many space limited applications. As well, the ADLPS35-150 is tailored to sit side-by-side with our 3.5-inch product line of motherboards and can also be adapted to a PC/104 stack via an optional mounting plate.

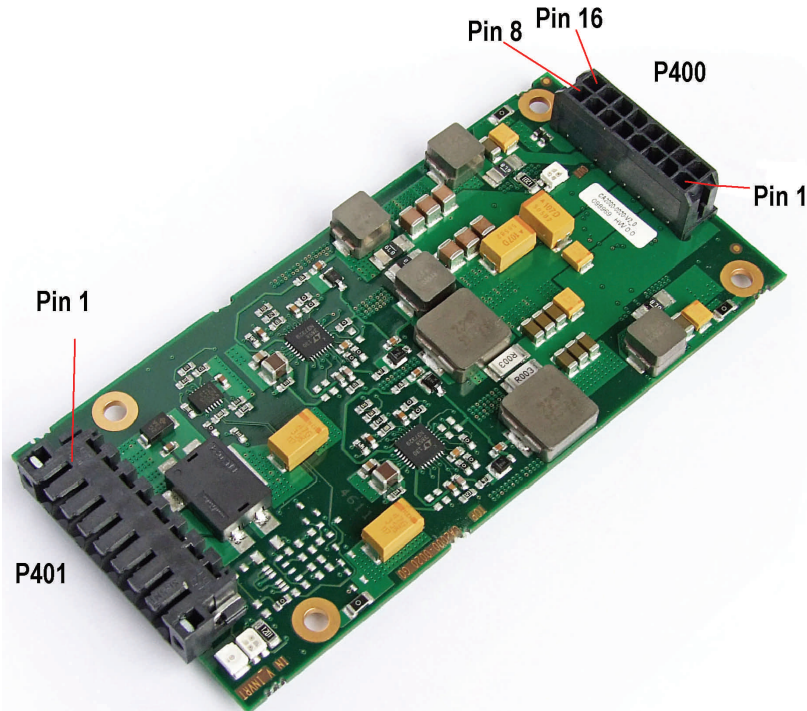
The power supply features ATX compliant signaling to allow ACPI/APM power management from within compliant operating systems. At 150 Watts total power and just 50mm x 102mm in size, this small and rugged power supply will fit into most embedded applications. The ADLPS35-150 is available in two variants, one allowing an input voltage range of 7-36V but providing only the 5V, 5VS, and 3.3V outputs, the other with a narrower input voltage range of 14-36V but providing 5V, 5VS, 3.3V and 12V outputs.

The board is protected against many types of input power anomalies, such as over-currents, voltage deviations and voltage surge. Short bursts of over-current are simply filtered out. Should overvoltage or under voltage situation persist too long, the power supply shuts off. Noise interference is dampened by up to 35dB. The output is protected against reverse voltage and short-circuit.

Data subject to change without notice.



ADLPS35-150, 150W 2"x4" ATX Power Supply



| P400 - Power Output | | | | | |
|---------------------|-----------|-----|-----|---------|------------------|
| Description | Signal | Pin | Pin | Signal | Description |
| 5 Volts DC | VCC | 1 | 9 | VCC | 5 Volts DC |
| 5 Volts DC | VCC | 2 | 10 | VCC | 5 Volts DC |
| Ground | GND | 3 | 11 | GND | Ground |
| Ground | GND | 4 | 12 | GND | Ground |
| 12 Volts DC | 12V | 5 | 13 | 12V | 12 Volts DC |
| Standby 5 Volts DC | SVCC | 6 | 14 | PWRBTN# | ATX Power Button |
| ATX Power Good | ATX_PWRGD | 7 | 15 | PS_ON | ATX Control Line |
| 3.3 Volts DC | 3.3V | 8 | 16 | 3.3V | 3.3 Volts DC |

| P401 - Power Input | | |
|--------------------|---------|-----|
| Description | Signal | Pin |
| Not Connected | NC | 1 |
| Not Connected | NC | 2 |
| Not Connected | NC | 3 |
| Shield Ground | S_GND | 4 |
| Power Ground | P_GND | 5 |
| DC Power In | P_Vin | 6 |
| ATX Power Button | PWRBTN# | 7 |
| Power Status | | |
| 1A Fused DC Out** | PWRSTAT | 8 |

**This pin will output 12V or 5V at 1A (fused) depending on whether the power supply is 5V only output.

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