

ACE-4840APM 400 W PS/2 Medical Type ATX Power Supply

PFC

Medical



New Version 20+4 PIN POWER SUPPLY



1
Application
Server
Platform

2
Single
Board
Computer

3
IBX Series
POS PC

4
AFOLUX
POS
Panel PC

5
Video
Capture
Card

6
KAMIO
RISC

7
IOVU
Open HMI

8
VITO
Universal
Controller

9
DINO
BLADE

10
LCD
Product
Series

11
Embedded
System

12
Industrial
Computer
Chassis

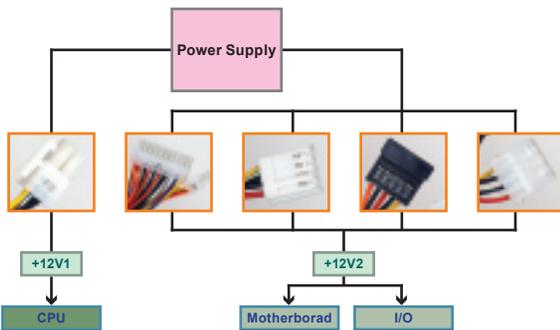
13
Power
Supply

14
Peripherals

Features

1. Internal 8 cm fan
2. Meets medical safety standards
3. Line input fuse protection
4. Output overvoltage protection
5. Short circuit protection on all outputs
6. Total +12 V output up to 34 A

Power Connector +12V



Dual 12V Separate Lines:

As processors become faster and more highly integrated, more current is required. To reduce power distribution loss, board manufacturers are moving from 5V to 12V power distribution. System components that use 12V are continuing to increase in power.

Version 2.0 of Intel's ATX12V Power Supply Design Guide began recommending dual 12V lines for PSUs that can deliver more than 18A at 12V. Why? To abide by safety requirements of UL and EM 60950, which stipulates not more than 240VA on any wires or exposed traces. Intel's PSU Guide calls for a current limiter that keeps current to under 20A on each of the 12V rails: 12V x 20A = 240VA.

What is the safety reason for this 240VA maximum? It's the maximum recommended for an electronic device that a consumer will have reasonable likelihood of access.

The +12V1 (First +12V rail) supplies the 24-pin ATX main power connector & 4-pin Peripheral Power connector, which feeds for the Mother Board & IO devices.

The +12V2 (2nd +12V rail) supplies the AUX12V 4-pin plug, which feeds only the CPU.

PICMG1.0 Form Factor Backplane



20+4 pin ATX power connector

PICMG1.3 Form Factor Backplane PE-10S/6S



Specifications

Input Voltage	90 ~ 265 VAC Full Range				
Input Frequency	47 ~ 63 Hz				
Input Current	8 A (RMS) for 115 VAC				
	4 A (RMS) for 230 VAC				
Inrush Current	60 A MAX. for 115 VAC				
	100A MAX. for 230 VAC				
Output Voltage	Voltage	Min. load	Max. load	Ripple & Noise	
	+3.3 V	0.5 A min	30 A	50 mV	
	+5 V	0.3 A min	30 A	50 mV	
	+12 V1	1 A min	17 A	120 mV	
	+12 V2	1 A min	17 A	120 mV	
	-5 V		0.3 A	100 mV	
	-12 V		0.8 A	120 mV	
	+5 V sb		2 A	50 mV	
	+3.3 V & +5 V total output not exceed 180 W				
	+3.3 V & +5 V & +12 V total output not exceed 380 W				
Overvoltage Protection	+5 V	5.7 V ~ 6.5 V			
	+3.3 V	3.7 V ~ 4.5 V			
	+12 V	13.3 V ~ 15.6 V			
Short Circuit Protection	+3.3 V, +5 V, +12 V short circuit all the output				
Hold Up Time	20 ms min.				
MTBF	100,000 hours				
Operating Temperature	0 °C ~ 50 °C				
Storage Temperature	-20 °C ~ 80 °C				
Efficiency	68%				
Dimensions	140 mm x 150 mm x 86 mm				
Outline Connector	20+4PIN ATX x1, 4PIN 12V CPU x1, HDD/CDROM x5, FDD x2, SATA x2, Extra +5V(P10) x1				

Ordering Information

Part No.	Description
ACE-4840APM-RS	400 W AC-DC PS/2 ATX Power Supply, meet Medical standard, with PFC