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# IP-AD Series

ITX

## Features

- Smart Thermal Control to Balance Noise & Cooling
- 40mm Cooling Fan
- MTBF 100KHRs @ 25°C per MIL-STD-217D/F
- Operating Ambient +10°C Minimum to +50°C Maximum
- Meets Intel® Haswell Processors
- ErP Lot 6 Compliant

## Safety

IP-AD120A7-2 / IP-AD160-2



IP-AD150A7-2



IP-AD180-2



## Dimensions

IP-ADxxxA7-2 52(W) × 170(L) × 40(H) mm  
 IP-ADxxx-2 54(W) × 185(L) × 48(H) mm

IP-ADxxxA7-2



IP-ADxxx-2



IP-AD150A7-2  
 IP-AD180-2

## Specifications

Model No.	Max. Output	AC Input	PFC	Max. Output Current								
				+12V1/ Peak	+5V	+3.3V	-12V	5VSB/ Peak	MAX1	MAX2	MAX3	
IP-AD120A7-2	120W	100-240V	Active	8A	6A	8A	0.2A	1.5A	40W	111W	120W	
IP-AD150A7-2	150W	100-240V	Active	10A	6A	9A	0.2A	1.5A	48W	120W	150W	
IP-AD160-2	160W	100-240V	Active	10A	6A	9A	0.15A	1.5/2A	48W	120W	160W	
IP-AD180-2	180W	100-240V	Active	10/13A	14A	13A	0.3A	2A	80W	120W	180W	

\* MAX1: 5V & 3.3V Total Output

MAX2: +12V Total Output (IP-ADxxxA7-2 : \*MAX2: 5V & 3.3V & +12V Total Output)

\* MAX3: Total Output Power

## Connectors

Model No.						
	24 Pin Main Power Connector	4+4 Pin +12V CPU Power Connector	4 Pin FDD Power Connector	Peripheral Power Connector	SATA Power Connector	Slim SATA Power Connector
IP-AD120A7-2	1	1	1	N/A	1	N/A
IP-AD150A7-2	1	1	1	N/A	1	N/A
IP-AD160-2	1	1	N/A	1	3	N/A
IP-AD180-2	1	1	N/A	N/A	3	1

\* The actual product is subject to change without prior notice. In Win Development Inc. reserves the right to make final modifications.