

# IDD-12490A 90W+120W DC/DC Converter Module



## Specifications

- Output: 12V@10A(pass thru.), 5V@10A (Max.), 3.3@8A (Max.), -12V@0.3A (Max.) & 5VSB@2A (Max.)

Max. Total Output: 90W plus 120W (12V pass thru.)

- Input: 12VDC

- Performance Characteristics

Noise & Ripple: <120mV

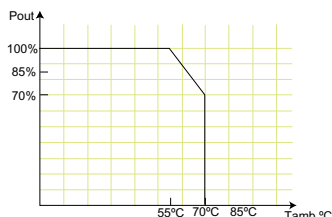
Load Regulation: <60mV

Efficiency: Up to 90%

- Dimensions: 45mm x 160mm

- Weight: NW: 82g

- Operating Temperature: -20°C ~ 70°C



## PIN Assignments

### Input Power Connector

| CN1 | Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|-----|-------|-------|-------|-------|
|     | Vin   | Vin   | GND   | GND   |

### Output Power Connector

| CN2 | Pin 1               | Pin 2 | Pin 3 |
|-----|---------------------|-------|-------|
| CN3 | +5V                 | GND   | +12V  |
| PW1 | Standard 20pins ATX |       |       |

### ATX Mode Connector

| CN4 | Pin 1 | Pin 2 | Pin 3 |
|-----|-------|-------|-------|
|     | 5VSB  | GND   | PS_ON |

## Wire Harness Selection Guide

### DC Input (CN1)



#### Option 1.

PN: CB-P1LP4-RS

Cable for FSP0601AD101C 60W/  
UP0451E12P 45W/UP0251E12PL 25W  
AC-DC adapter



#### Option 2.

PN: CB-MD4P4-RS

Cable for 63000-FSP120AAB-RS 120W  
AC-DC adapter



#### Option 3.

PN: CB-NOLP4-RS

Cable for Terminal Block

### SBC Main Power (PW1)



#### Option 1.

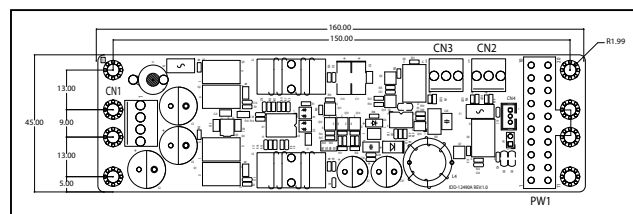
PN: CB-ATX20P-RS

20 Pins ATX to 20 Pins ATX Cable

## Features

- 90W + 120W (12V Pass Thru); Total power 210W
- AT or ATX Mode On/Off
- Up to 90% Efficiency
- RoHS Compliant
- Compact Size

## Dimensions (Millimeters)



## Packing List

1 x IDD-12490A

1 x QIG

## Ordering Information

| Part No.       | Description                                                                          |
|----------------|--------------------------------------------------------------------------------------|
| IDD-12490A-R10 | 90W + 120W DC/DC 12V input; 12V, 5V, 3.3V, -12V & 5VSB output                        |
| CB-JST3PSW-RS  | 30cm Cable ON/Off Switch                                                             |
| CB-JST3P001-RS | 30cm 5VSB, PS_ON Wire to SBC                                                         |
| CB-3PSATA-RS   | 10cm Cable for SATA Power                                                            |
| CB-3PIDE-RS    | 10cm Cable for IDE HDD Power                                                         |
| CB-P1LP4-RS    | 20cm Cable for FSP0601AD101C 60W/<br>UP0451E12P 45W/UP0251E12PL 25W AC-DC<br>adapter |
| CB-MD4P4-RS    | 20cm Cable for 63000-FSP120AAB-RS 120W AC-<br>DC adapter                             |
| CB-NOLP4-RS    | 20cm Cable for Terminal Block DC Input                                               |
| CB-ATX20P-RS   | 30cm 20 Pins ATX to 20 Pins ATX Cable                                                |

### I/O Power (CN2 & CN3)



#### Option 1.

PN: CB-3PSATA-RS

Cable for SATA



#### Option 2.

PN: CB-3PIDE-RS

Cable for IDE HDD or any STD 4 pins  
I/O devices

### Power On/Off (CN4)



#### Option 1.

PN: CB-JST3PSW-RS

Cable with On/Off Switch



#### Option 2.

PN: CB-JST3P001-RS

Cable to SBC (5VSB & PS\_ON)