

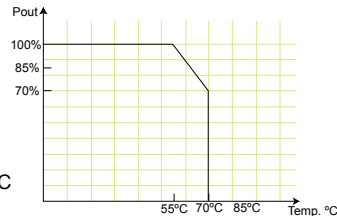
IDD-12490A

90 W+120 W DC/DC Converter Module



Specifications

- Output (max.): 12 V@10 A (pass thru.), 5 V@10 A, 3.3 V@8 A, -12 V@0.3 A & 5 VSB@2A
Max. total output: 90 W plus 120 W (12 V pass thru.)
- Input: 12 VDC
- Performance characteristics
Noise & ripple: <120 mV
Load regulation: <60 mV
Efficiency: Up to 90%
- Dimensions: 45 mm x 160 mm
- Weight: NW: 82 g
- 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 CN3	Pin 1	Pin 2	Pin 3
	+5 V	GND	+12 V
PW1	Standard 20-pin ATX		

ATX Mode Connector

CN4	Pin 1	Pin 2	Pin 3
	5 VSB	GND	PS_ON

Wire Harness Selection Guide

DC Input (CN1)



Options 1.

PN: CB-P1LP4-RS

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



Options 2.

PN: CB-MD4P4-RS

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



Options 3.

PN: CB-NOLP4-RS

Cable for terminal block

SBC Main Power (PW1)



Options 1.

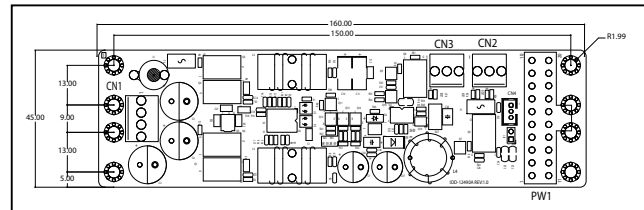
PN: CB-ATX20P-RS

20-pin ATX to 20-pin ATX cable

Features

1. 90 W + 120 W (12 V Pass Thru); total power 210 W
2. AT or ATX mode on/off
3. Up to 90% efficiency
4. RoHS compliant
5. Compact size

Dimensions (Millimeters)



Packing information

1 x IDD-12490A

1 x QIG

Ordering Information

Part No.	Description
IDD-12490A-R11	90 W + 120 W DC/DC 12 V input; 12 V, 5 V, 3.3 V, -12 V & 5 VSB output
CB-JST3PSW-RS	30 cm cable on/off switch
CB-JST3P001-RS	30 cm 5 VSB, PS_ON wire to SBC
CB-3PSATA-RS	10 cm cable for SATA power
CB-3PIDE-RS	10 cm cable for IDE HDD power
CB-P1LP4-RS	20 cm cable for FSP0601AD101C 60 W/ UP0451E12P 45 W/UP0251E12PL 25W AC-DC adapter
CB-MD4P4-RS	16 cm cable for 63000-FSP120AAB-RS 120 W AC-DC adapter
CB-NOLP4-RS	20 cm cable for terminal block DC input
CB-ATX20P-RS	30 cm 20-pin ATX to 20-pin ATX cable

I/O Power (CN2 & CN3)



Options 1.

PN: CB-3PSATA-RS

Cable for SATA



Options 2.

PN: CB-3PIDE-RS

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

Power On/Off (CN4)



Options 1.

PN: CB-JST3PSW-RS

Cable with on/off switch



Options 2.

PN: CB-JST3P001-RS

Cable to SBC (5 VSB & PS_ON)