

**150W/380W Power Module, 12V or 16V-28V Input,
up to 95% Efficiency and RoHS Compliant**

IDD-X1228150

Quick Installation Guide

Version 1.0

February 2, 2023

Package List

IDD-X1228150 package includes the following items:

- 1 x IDD-X1228150 power module
- 1 x Power cable for backplane
- 1 x Power cable for graphics card
- 1 x Terminal block
- 1 x I/O blank
- 1 x Screw pack



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Specifications

- Power Input:
12V or 16V-28V DC
- Power Output (max):
12V@32A (12V input) or 12V@12.5A (16V-28V input)
- Performance Characteristics:
Noise & ripple: <25 mV
Load regulation: <120 mV
Efficiency: up to 95%
- Operation Temperature: 0°C – 60°C
- Dimensions: 89.8 mm x 123 mm

Ordering Information

- **IDD-X1228150-R10:**
12V output power module, 150W@16V~28V or 380W@12V DC input
- **32110-000200-100-RS:**
Power cable for graphics card, 300mm

Jumpers Setting and Connectors

| LABEL | FUNCTION |
|------------------|---|
| CN1 | Power input connector |
| J1, J2, J3 | Power output connectors (to add-on cards) |
| PW1 | Power output connector (to backplane) |
| JP1, J4 | MCU programming connectors |
| LED1, LED2, LED3 | Power status LED indicators |

| CN1: Power Input Connector | | | |
|-----------------------------------|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | DC_IN | 4 | GND |
| 2 | DC_IN | 5 | GND |
| 3 | DC_IN | 6 | GND |

| J1, J2, J3: Power Output Connectors (to Add-on Cards) | | | |
|--|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | +12V | 5 | GND |
| 2 | +12V | 6 | GND |
| 3 | +12V | 7 | GND |
| 4 | GND | 8 | GND |

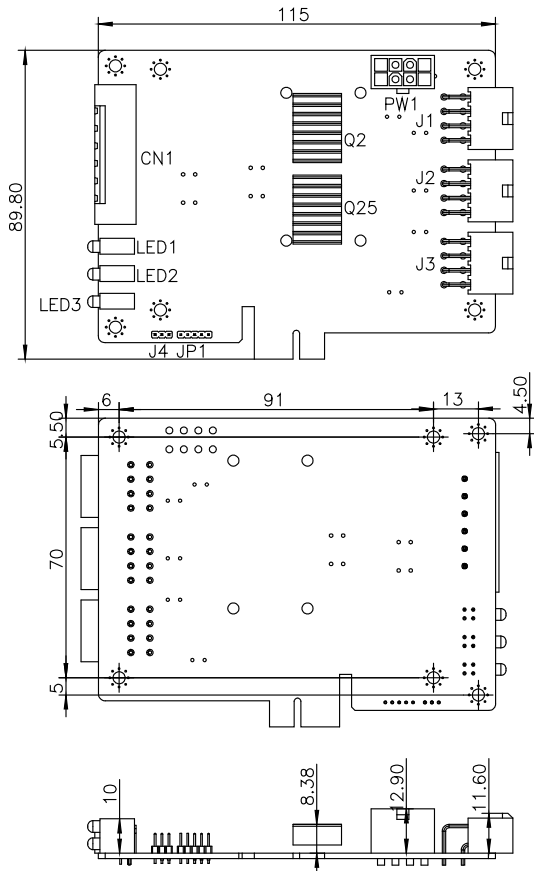
| PW1: Power Output Connector (to Backplane) | | | |
|---|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | +12V | 5 | +12V |
| 2 | +12V | 6 | GND |
| 3 | GND | 7 | +12A |
| 4 | BP_PWR_GPIO_EC | 8 | PW_SW |

| JP1: MCU Programming Connector | | | |
|---------------------------------------|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | +3V3MCU | 4 | RESET |
| 2 | SWDAT | 5 | GND |
| 3 | SWCLK | | |

| J4: MCU Programming Connector | | | |
|--------------------------------------|--------------------|----------------|--------------------|
| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1 | +3V3MCU | 3 | GND |
| 2 | BOOT0 | | |

| LED | Color | Description | | | | |
|------|-------|-------------|--------------------|-----|-----------|--|
| LED1 | Red | on | Wide voltage input | off | 12V input | Alternately flashing indicates a fault. Please check the input and output. |
| | Green | off | | on | | |
| LED2 | Red | off | | on | | |
| | Green | on | | off | | |
| LED3 | Red | on | Being output | | | |
| | Green | on | Output with load | | | |

Board Layout: Jumper and Connector Locations



(Unit: mm)