

ASRockInd Technical Reference - Q&A

Question	I would like to use the PCIE add-on card (+12V input power required) on DC-in designed motherboard, how do I supply the +12V input power for PCIE add-on card?
Release date	2024/05/13
Product	IMB-X1240-WV, IMB-1240-WV, IMB-1239-WV, IMB-1233-WV, IMB-X1233-WV, IMB-1232
FAQ type	<input type="checkbox"/> Specification <input type="checkbox"/> OS & Driver <input checked="" type="checkbox"/> Application <input type="checkbox"/> BIOS/FW <input checked="" type="checkbox"/> Others

Answer:

We suggest use the ASRockind VGA-PWR card to supply the +12V input power for the PCIE add-on card.

Please feel free to contact us at <https://www.asrockind.com/en-gb/product-inquiry> for product inquiry.

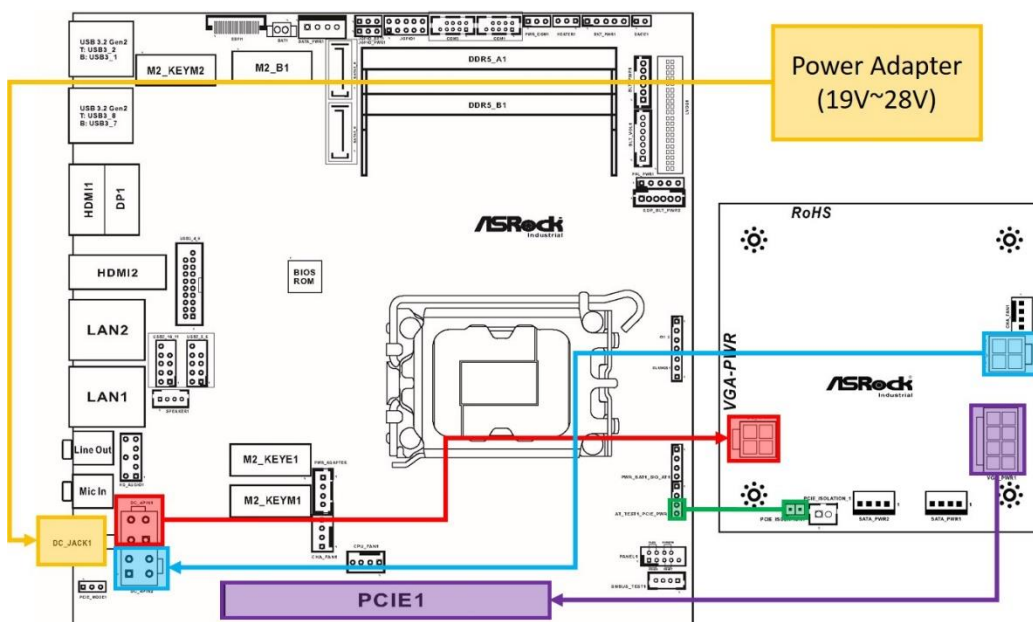
Please refer following picture to connect the VGA-PWR card and PCIE add-on card on the motherboard.

[For IMB-X1240-WV, IMB-1240-WV, IMB-1239-WV]

Please set PCIE_PWR_MODE (PCIE_MODE1) at HIGH_PWR_MODE (Short pin2-3)

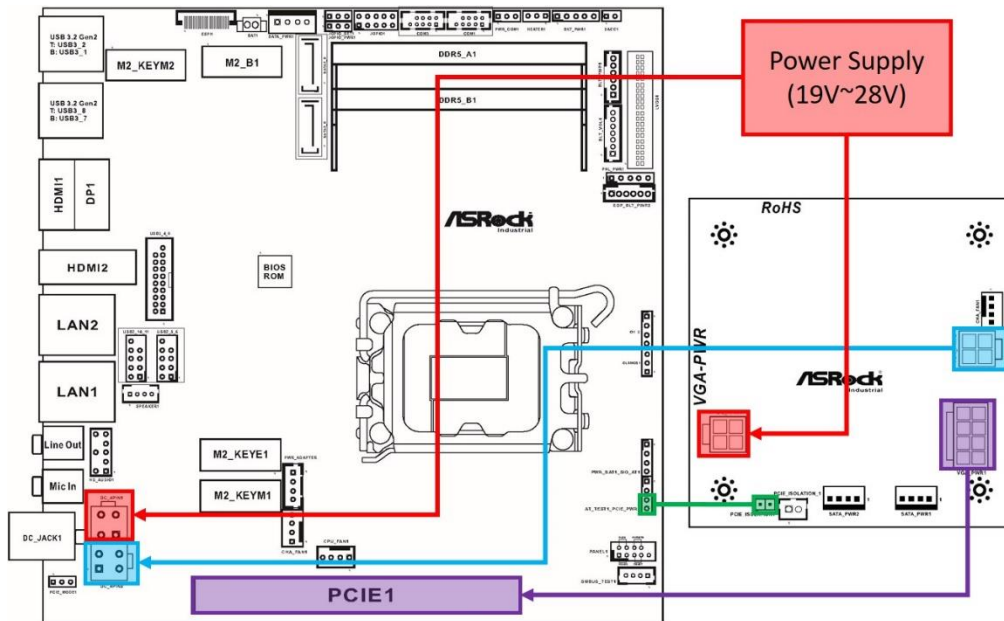
A) Supply power through DC-Jack with VGA-PWR card:

- 1) Connect Power Adapter to DC Jack (DC JACK1) [Yellow]
- 2) Connect 4-pin ATX PWR Connector (DC 4PIN1) to 4-pin DC-IN Power Connector (DC 4PIN1) [Red]
- 3) Connect EXTRA PCIE PWR IN Connector (White) (DC 4PIN2) to 4-pin VGA Power Connector (VGA_PWR2) [Blue]
- 4) Connect PCIE_PWR1 to PS_ON# Header (PCIE ISOLATION1) [Green]
- 5) Connect VGA Power Connector (VGA_PWR1) to PCIE add-on card [Purple]

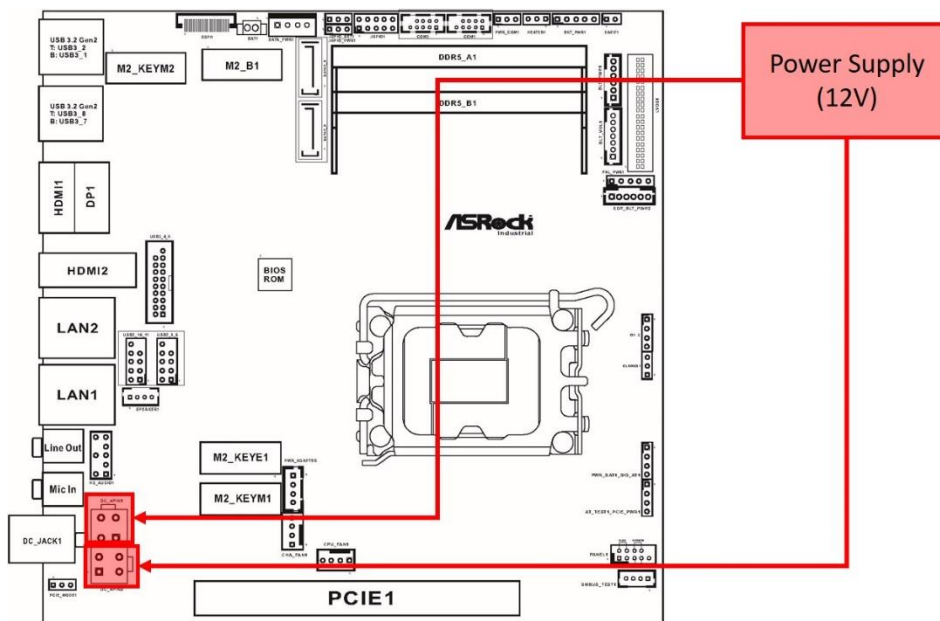


B) Supply power through 4-pin ATX PWR Connector with VGA-PWR card:

- 1) Connect Power Supply to 4-pin ATX PWR Connector (Black) (DC 4PIN1) and 4-pin DC-IN Power Connector (DC 4PIN1) [Red]
- 2) Connect EXTRA PCIE PWR IN Connector (White) (DC 4PIN2) to 4-pin VGA Power Connector (VGA PWR2) [Blue]
- 3) Connect PCIE PWR1 to PS ON# Header (PCIE ISOLATION1) [Green]
- 4) Connect VGA Power Connector (VGA PWR1) to PCIE add-on card [Purple]

**C) Power Supply with dual +12V power: (No VGA-PWR card required)**

Connect Power Supply to 4-pin ATX PWR Connector (Black) (DC 4PIN1) and EXTRA PCIE PWR IN Connector (White) (DC 4PIN2) [Red]



[For IMB-1232, IMB-1233-WV, IMB-X1233-WV]

- 1) Connect Power Supply to 4-pin ATX PWR Connector (Black) (DC_4PIN1) and 4-pin DC-IN Power Connector (DC_4PIN1) [Red]
- 2) Connect PCIE_PWR1 to PS_ON# Header (PCIE_ISOLATION1) [Green]
- 3) Connect VGA Power Connector (VGA_PWR1) to PCIE add-on card [Purple]

