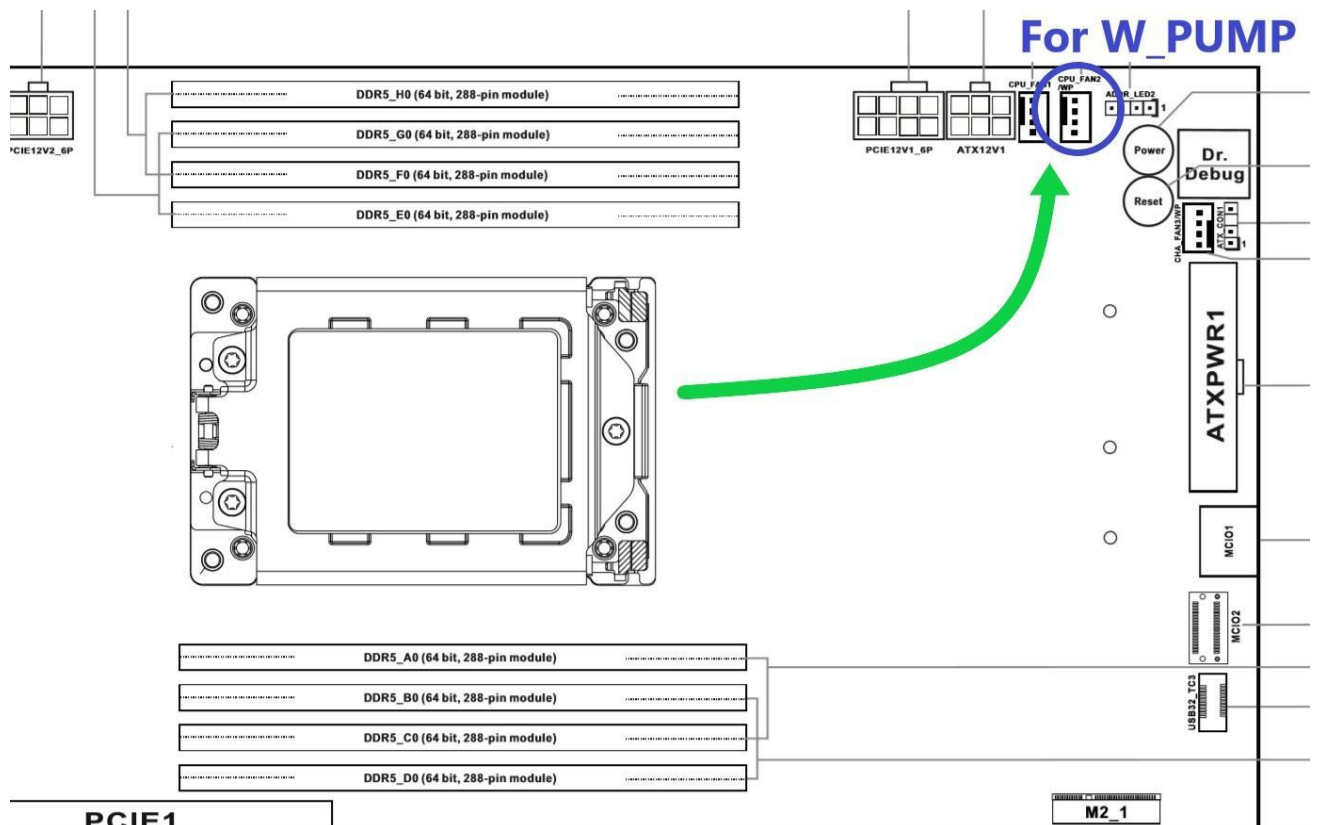# ASRock WRX90 WS EVO Guidelines

Overview

CPU Installation

CPU Installation Notes

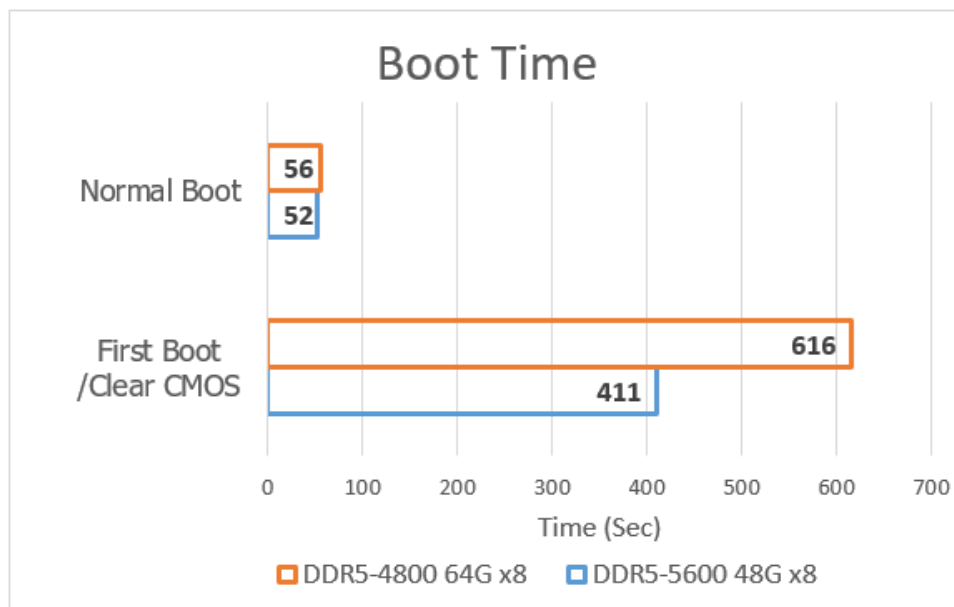Please visit ASRock website and refer to user manual pages .

CPU Fan Connector

1. Please connect the CPU fan or radiator fan to the header "CPU_FAN1". This way, the CPU temperature will be used as reference for the CPU fan.
(If for some reason you would like to use a different header for the CPU/radiator fan, make sure to select "Monitor CPU" as "Temp Source" for that header.)

2. If an AIO water cooler is used, please connect the pump to CPU_FAN2/WP, as it is set to W_PUMP mode and full speed by default.

<u>Memory Installation and Specification</u>

1. WRX90 WS EVO supports only DDR5 RDIMM ECC memory. It does not support UDIMM (incompatible slots).

2. Debug code "00" is shown during AMD AGESA initialization. This code can be seen for a relatively long period during the first boot, and it is does not mean that the system has crashed or frozen.

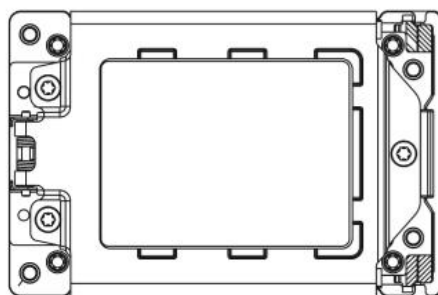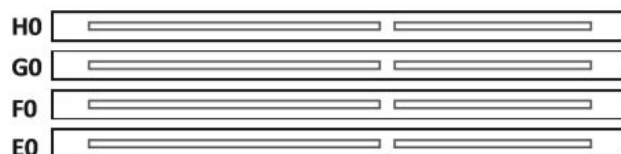

The boot time provided is for reference only. The actual boot time may vary depending on the system configuration.

3. Please populate the memory slots as shown below.

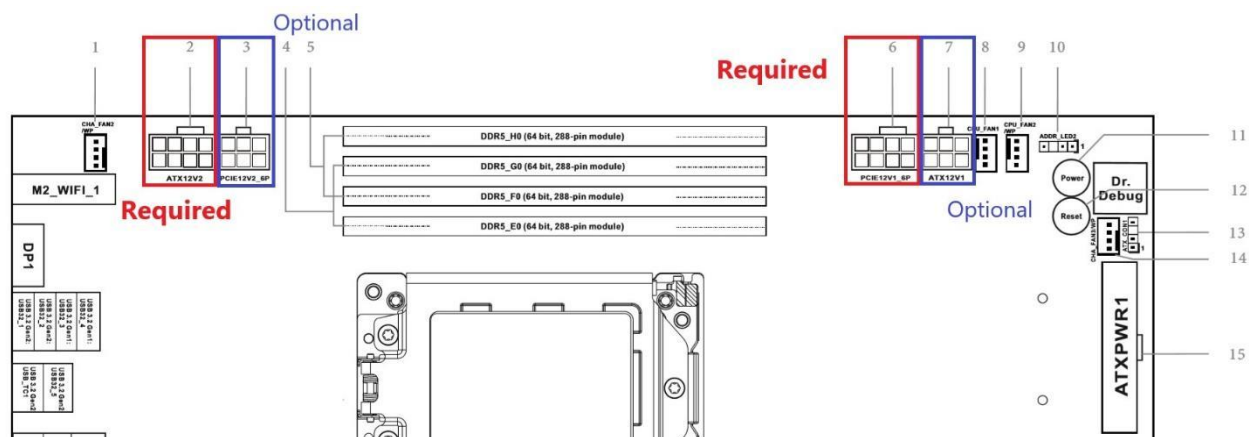Recommended Memory Configuration

	A0	B0	C0	D0	E0	F0	G0	H0
1 DIMM	V							
2 DIMMS	V				V			
4 DIMMS	V		V		V		V	
8 DIMMS	V	V	V	V	V	V	V	V

CPU and PCIe Devices Power Connections

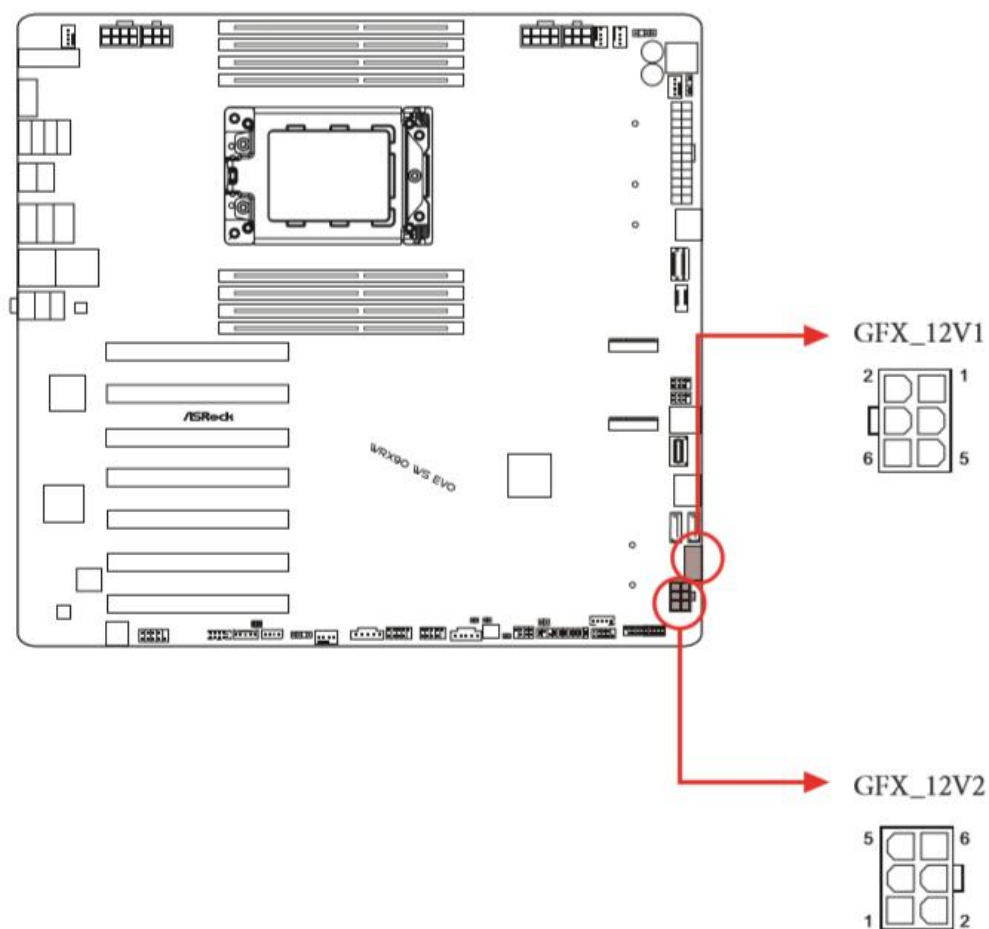## CPU Power Connectors

2 x 8-pin (Required) + 2 x 6-pin (Optional)

Connector Type		
8-pin CPU power connector	ATX12V1	ATX12V2
6-pin PCIe power connector	PCIE12V1_6P	PCIE12V2_6P
For details, please visit ASRock website and refer to user manual pages 51 and 52.		

PCIE Power Connector

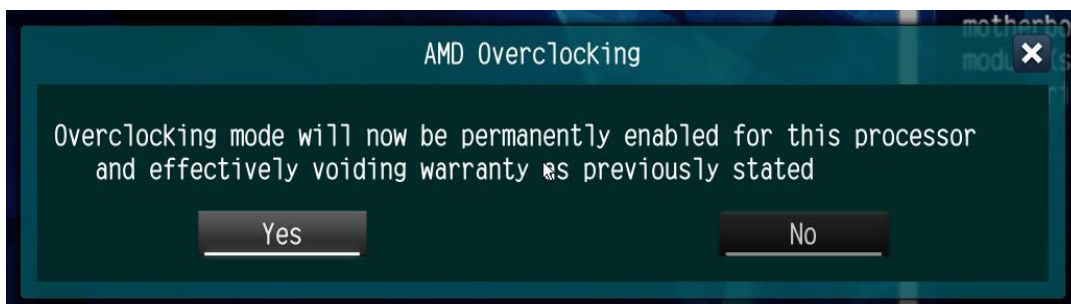2 x 6-pin (Required to connect either GFX_12V1 or GFX_12V2)

For details, please visit ASRock website and refer to user manual page 53.

Other important topics

1. **AMD Overclocking Notification and Registration.**

    When you attempt to overclock the system, the BIOS will display an AMD overclocking notification. This notification is part of AMD's overclocking mechanism. Press "yes" if you want to enter overclocking mode. This will be registered within the AMD CPU, for reference by the AMD warranty team.
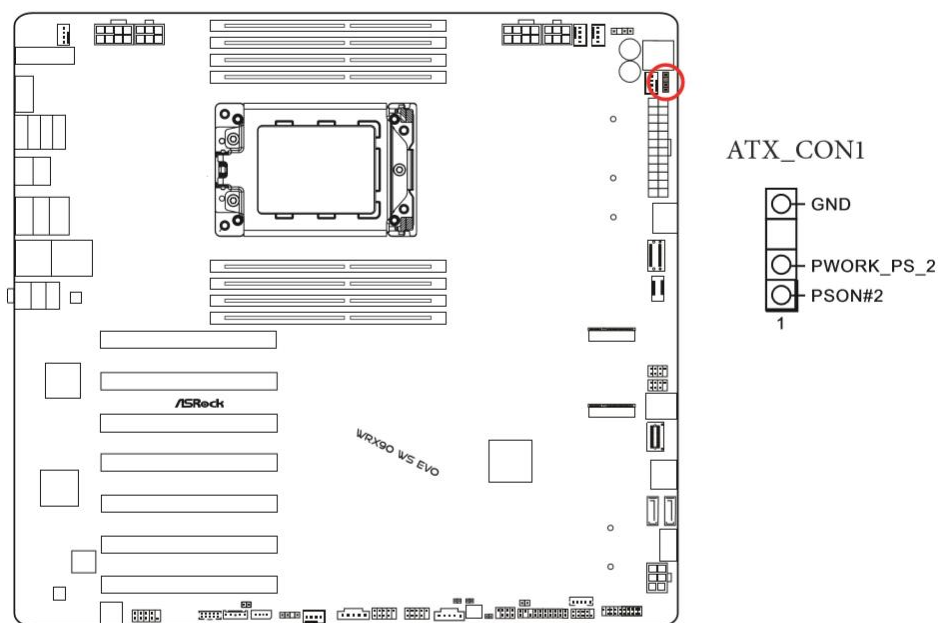

    A CPU will generate this warning message only once. After accepting the message and consequences, the BIOS will no longer display this message with this CPU.
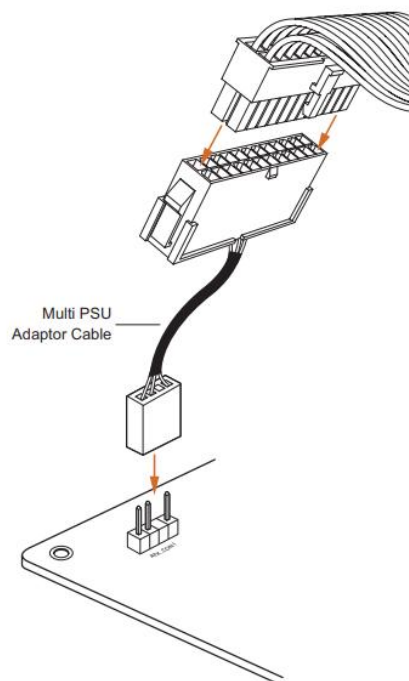
2. Connecting a Secondary PSU

A secondary PSU is not mandatory but can be used. It can be connected to the 3-pin ATX Power Connector ATX_CON1, using a Multi PSU Adaptor Cable. All the power cables from the secondary PSU will be available for connecting to the motherboard.

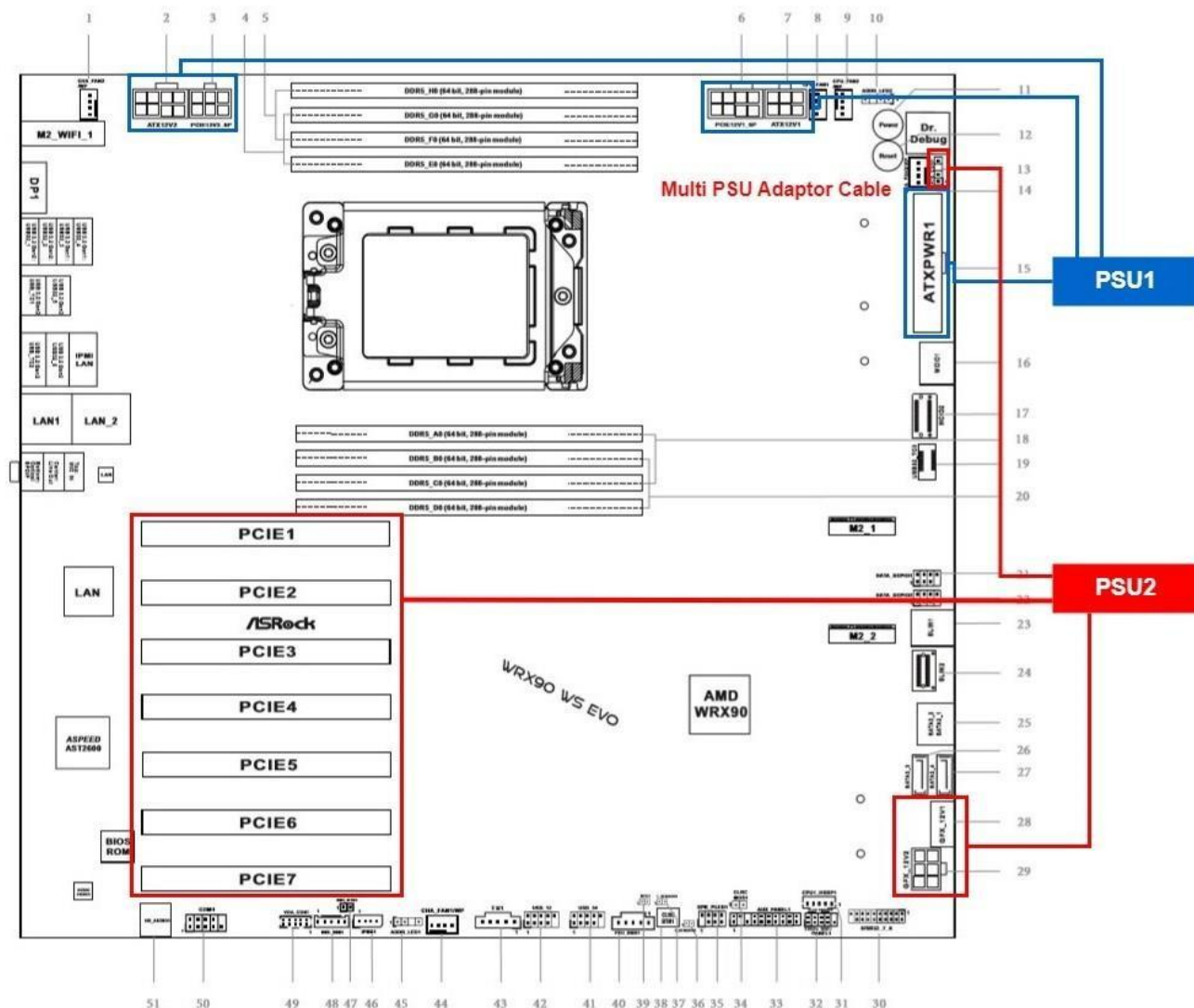The Multi PSU Adaptor Cable will come with the WRX90 WS EVO package.

ATX_CON1

GND
PWORK_PS_2
PSON#2

The following diagram illustrates how to connect the bundled Multi PSU Adaptor Cable.

Multi PSU
Adaptor Cable

For details, please visit ASRock website and refer to user manual page 49.

Recommended setup when using 2 PSUs

Multi PSU Adaptor Cable

3.   BMC and IPMI WebUI

WRX90 WS EVO has integrated BMC and supports IPMI WebUI for system management.

Please connect a LAN cable from the client to the dedicated IPMI LAN port. Connect the 24-pin power cable to the WRX90 WS EVO motherboard to access IPMI Web UI from the client end.

1.4 I/O Panel