ISROCK Tech

Technical Reference - Q&A

1. Q: On an ATX and micro-ATX combo chassis, which mounting holes are required for installing a micro-ATX

motherboard?

A: Please refer to the mounting holes of ATX and micro-ATX form factor.



Figure 2. ATX and microATX Form Factor Mounting Holes

Step1. Please install copper pillars in the mounting holes located at B, C, F, H, J, L and M. Step2. For location R and S, check the screw holes located on the motherboard. Please install the copper pillars on to your motherboard.

2. Q: What are the requirements of AMD dual graphics technology on AMD A85X/A75/A55 series platforms?

- A: 1. Please use AMD Dual Graphics certified DX11 VGA cards. (EX: Radeon HD 6670/6570/6450... etc.)
 - 2. Install an APU which supports AMD Dual Graphics.
 - 3. Use Microsoft Windows7 or Windows8 operating system.

For detailed information please refer to AMD's official website:

http://www.amd.com/us/products/technologies/dual-graphics/Pages/dual-graphics.aspx#3

3. Q: I can't update the BIOS via Internet Flash, what should I do?

A: You may follow the steps below:

- 1. Please load default settings for the BIOS and make sure your system is connected to the Internet.
- 2. If your Internet environment is PPPoE, please enter "Network Configuration item".

Select "Internet Setting" as "PPPoE" then type in your name and password.



3. You can select the UEFI Download Server nearest to you.

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4. If the same problem still occurs, please download and update the latest BIOS from ASRock's website first, then you can update the BIOS via Internet Flash next time.

Download link: http://www.asrock.com/support/download.asp

4. Q: My Z87 motherboard has two Intel onboard LANs. How do I setup the Teaming function to combine both onboard LANs?

A: Please follow the steps below to enable Teaming

Step1: After installing the motherboard and LAN drivers, restart your computer and then open Device Manager.

Right click on the network adapter and select **Properties** under **Network adapters**.



Step 2: Click the Teaming tab, select the Team this adapter with other adapters checkbox, and click New Team.

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Step 3: Enter the team name.



Step 4: Select two adapters to include in the team and click Next.

New Team Wizard		×
	Select the adapters to include in this team: Intel(R) Ethernet Connection I217-V Intel(R) I211 Gigabit Network Connection	
	This list shows the adapters that are available for Advanced Networking Services (ANS) teaming. Adapters that do not support ANS teaming, are already members of another team, or are otherwise unable to join a team, are not listed. Check the adapters you wish to include in the team. Some non-Intel adapters are supported in ANS teams. For more information, see Multi-Vendor Teaming.	* III + +
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Step 5: Select a team type and click **Next**. You can read the detailed explanation of each team type below. On the following dialog box, click **Finish** to complete the teaming configuration.

 Select a team type:	
Adapter Fault Tolerance	
Adaptive Load Balancing Static Link Aggregation IEEE 802.3ad Dynamic Link Aggregation Switch Fault Tolerance	
Adapter Fault Tolerance	
Adapter Fault Tolerance (AFT) provides redundancy through automatic failovers from an active adapter to a standby adapter in the case of switch port, cable, or adapter failure.	(3)
One adapter is selected to be the active adapter. All other adapters are in standby.	
Primary and Secondary adapters can be selected for the	
If a Primary adapter is chosen, it becomes the active	-
 If a Primary adapter is chosen, it becomes the active 	

Adapter Fault Tolerance:

The team will use the healthiest high-speed adapter as primary adapter; the other adapter is in standby. If the active adapter fails, the secondary adapter takes over.

Adaptive Load Balancing:

Provides transmit traffic load balancing and fault tolerance. The team will analyzes the transmit load on each member adapter and balances the traffic across member adapters

*Static Link Aggregation:

A performance technology developed to increase throughput between switches or a server and switch. This is accomplished by bundling or channeling several ports together and showing them as a single link. This increases the total bandwidth.

*Switch (or Router) could support Teaming (IEEE 802.3ad LACP) function

*IEEE 802.3ad Dynamic Link Aggregation:

An IEEE standard for increasing throughput between switches or a server and switch. This is accomplished by dynamically bundling or channeling several ports together and showing them as a single link using Link Aggregation Control Protocol (LACP). This increases the total bandwidth.

* Switch (or Router) could support Teaming (IEEE 802.3ad LACP) function:

Switch Fault Tolerance: Primary adapter will automatically fail over to a standby adapter

Note: If you want the team with double bandwidth, please select Static Link Aggregation or IEEE 802.3ad Dynamic

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Computer Management (Local System Tools Task Scheduler Event Viewer Shared Folders Shared Folders Storage Disk Management Services and Applications	 qwe-PC Bluetooth Radios Computer Display adapters Human Interface Devices IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors Bluetooth Device (Personal Area Network) Bluetooth Device (RFCOMM Protocol TDI) Broadcom 802.11ac Network Adapter TEAM : Team #0 TEAM : Team #0 TEAM : Team #0 Ports (COM & LPT) Processors System devices Universal Serial Bus controllers 	TEAM : Team #0 Properties General Settings Advanced VLANs Driver Image: TEAM : Team #0 Image: Team #0 Image: Team #0 Image: Team #0 Device type : Network adapters Manufacturer: Intel Location: Unknown Image: This device is working property.	Actions Actions Details OK Cancel

Step 6: You can see the new team under Network adapters.

(Note: To delete the team, right click on the team and select Properties\Settings\Remove Team.)