

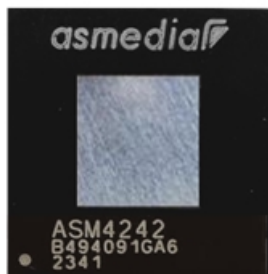
## Category Award

ASM4242 | USB4 Host Controller  
40G



ASMedia Technology Inc  
祥碩科技股份有限公司

[Company Website](#)



## Winning Reason

1. After receiving USB-IF certification in early 2024, ASMedia's ASM4242 USB4 host controller chip now also has Thunderbolt 4 certification. It is one of the world's few standalone host controller chips with dual certification for USB4 and Thunderbolt 4, providing a more comprehensive high-speed transmission solution and creating a superior end-user experience.
2. The chip supports high-speed connections between two hosts, enabling large data transfers, shared displays, or the use of PCIe devices.
3. Through a USB4 external PCIe interface, it allows the host to connect an external GPU, enhancing system graphics and AI computing capabilities.

## Product Feature

The ASM4242 is ASMedia's first generation of USB4 host controller. It features upstream ports with 4-lane PCI Express 4.0 (PCIe Gen 4) and dual 4-lane DisplayPort sink ports, and downstream facing ports with dual USB4 ports.

This controller also supports multiple protocol tunneling and USB 3.2 and DisplayPort alternate mode, providing high bandwidth up to USB4 Gen 3x2 40Gbps, USB 3.2 SuperSpeedPlus Gen 2x2 20Gbps and DisplayPort HBR3 x4 up to 32.4Gbps.

This controller is in compliance with USB4 Specification Rev 1.0, VESA DisplayPort Standard V1.4a, VESA DisplayPort Alt Mode on USB Type-C Standard V2.0, and PCI Express Base Specification Rev 4.0 V1.0.

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