Turn one USB-C port into 4 USB-A ports with alloy durability

USB-C	1xUSB3.0	3xUSB2.0	5v=2A

Speed where needed, stability for everything else

USB 3.0	Alloy Shell	Micro-USB Power

Interfaces, Electrical & Mechanics.

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COMPIX

USB 3.0   USB 2.0   USB 2.0

Alloy Shell

COMPIX

PCB

Port Block
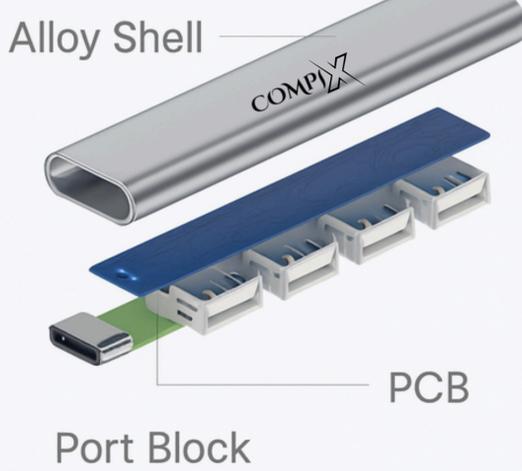
Bandwidth expectations and shared power

Speed Comparison

Super Speed (USB 3.0) up to 5Gbps

High-Speed (USB 2.0) up to 480 Mbps

5V=2A Input

SS — 1x Supper Speed port

HS — 3x High-Speed (shared)

Hub Controller

Do

Self powered HDDs or external

Avoid power-hungry HDDS

F.A.Q
Frequently asked questions

Can all 4 ports run together?

Yes—bandwidth & power are shared.

Will it power 3.5" HDDs?

Use self-powered 3.5" enclosures; hub provides data + limited 5 V.