



Thunderbolt™ 3 solutions TBX-550CA IO Board

Key Features

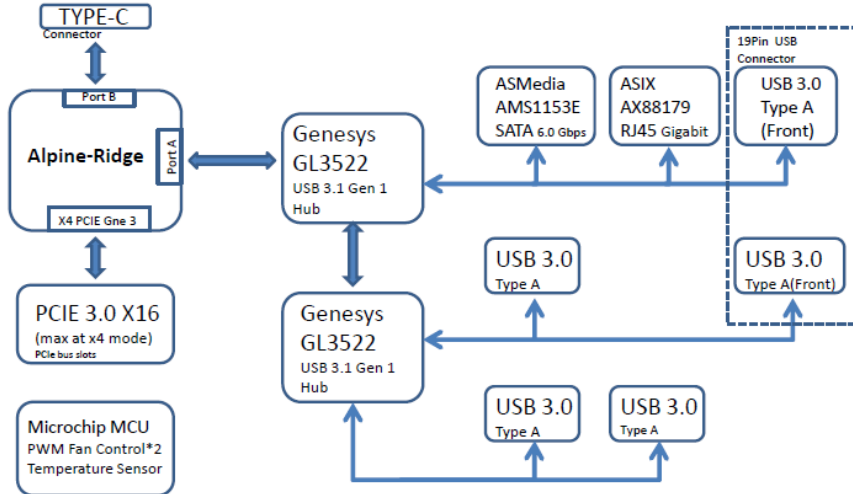
- USB-C connector and cables (small, reversible)
- 40 Gbps Thunderbolt™ 3 – double the speed of Thunderbolt™ 2
- PCI Express x16 slot support high performance graphics card (Max Gen3 x4 speed)
- Additional I/O ports : 5 x USB 3.0 , 1 x SATA, 1 x Gigabit Ethernet
- Built-in Temperature sensor & FAN control by MCU
- Thunderbolt3 USB-C port support USB Power Delivery (PD) for charging compatible laptops up to 87W.

Specification

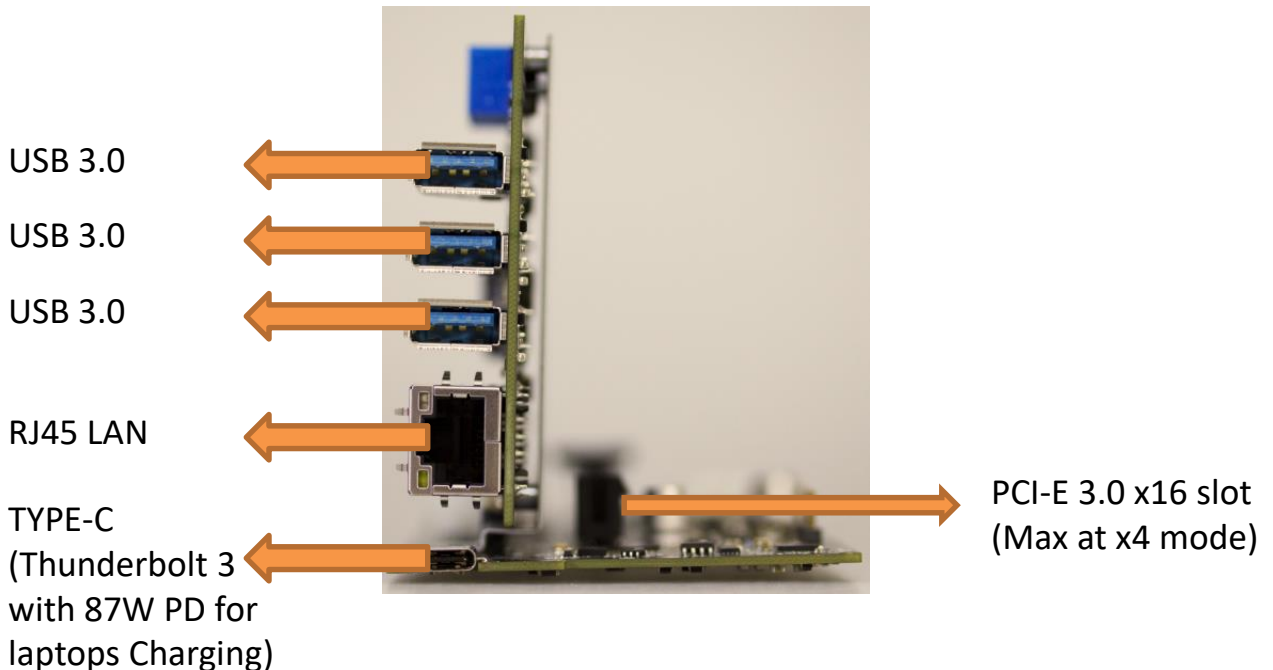
Specification	
Model	TBX-550CA IO Board
Chipsets	Intel® Alpine Ridge Chipset
Connectors	1 x TYPE-C (Thunderbolt 3 with 87W PD for laptops Charging) 1 x PCI Express slot (max at Gen3 x4 mode) 5 x USB3.0 (3x External , 2 x Internal 19 Pin) 1 x RJ45 LAN (10/100/1000 Mbit/s) 1 x SATA (6Gbps) 2 x 4-pin PWM Fan connector (FAN control by MCU)
Transmitters Rate	40Gbps Thunderbolt™ 3
OS support	Windows® 10
Temperature Range	0°C ~ 45°C
Power Input	ATX 24-pin Power
Dimension	PCB size : Thunderbolt3 board: 184 x 69 mm IO board: 82 x 74 mm

The product specifications are subject to change without notice.

Block Diagram

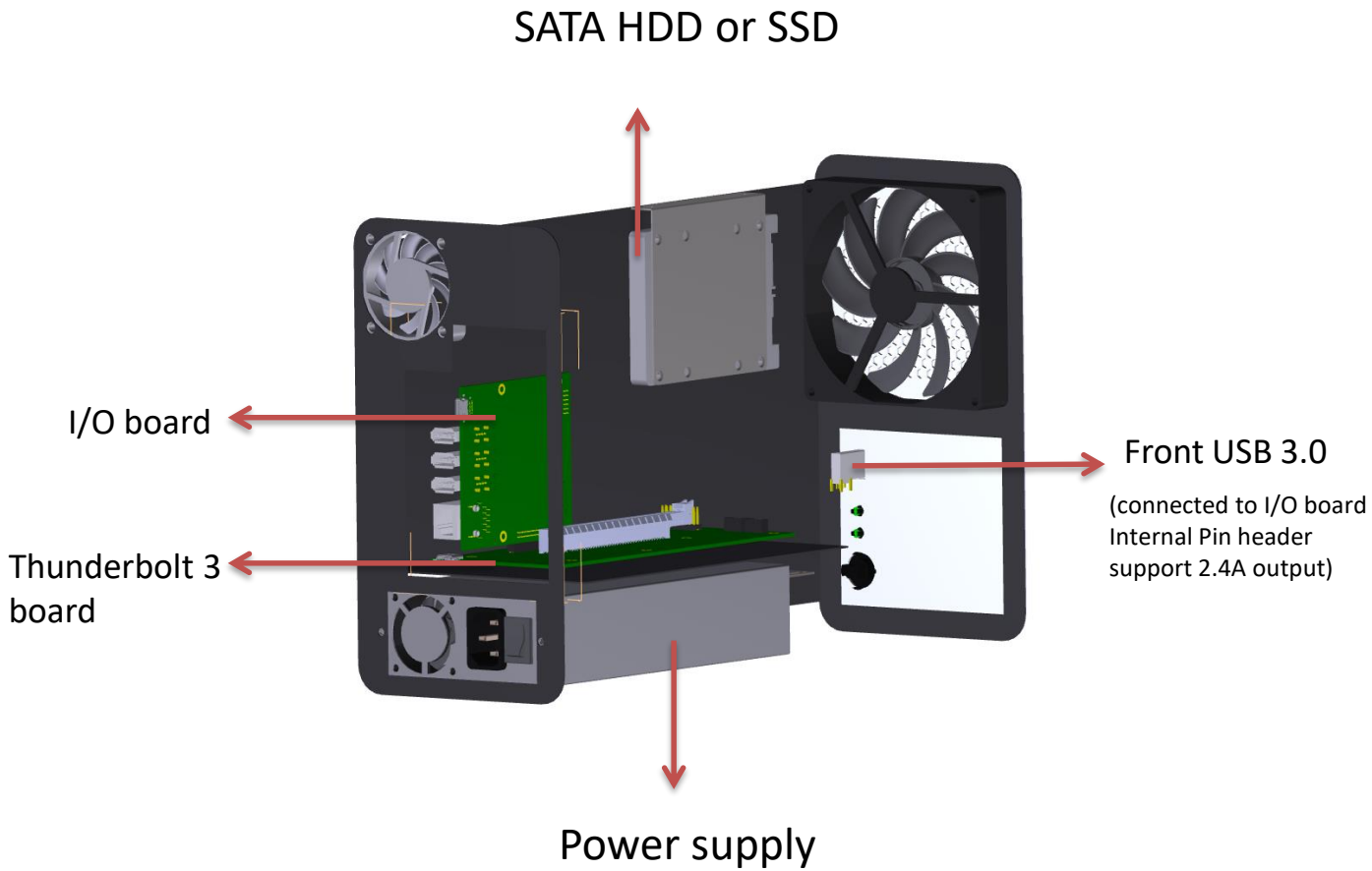


Board configuration



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Assembly example



****Case not included, case design and assembly is for reference only.**

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For Sales inquiries and further information, please contact : sales.embedded@tul.com.tw