Lynk U4

Tittron USB4 High-Speed Hub | All Type-C | Up to 40 Gbps / 240 W PD EPR

EN

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OVERVIEW

The Tittron Lynk U4 Series USB4 Hub (Lynk U4) is an all Type-C high-performance USB4 hub built for power users, engineering labs and bandwidth-demanding workflows. One USB4 Type-C upstream port splits into four Type-C downstream ports: one multifunctional 40 Gbps USB4-C port with DP Alt Mode and pass-through PD, a second 40 Gbps data-only USB4-C port, plus two 20 Gbps USB 3.2 Gen2×2 Type-C ports. It solves common pain points of premium laptops: limited native high-speed ports, conflicts between external high-resolution displays and NVMe storage, and unstable 40 Gbps performance on generic docking stations under heavy load. It is ideal for video creators, multi-monitor workstation users, hardware engineers and lab test engineers.



Tittron Lynk U4
USB4 High-Speed Hub

Equipped with a USB-IF certified controller, it natively supports USB4, Thunderbolt 3 / 4, DP 2.1, PD 3.1 EPR and PCIe tunneling. For full performance, the host must provide a native USB4 or Thunderbolt port; desktop PCs require a motherboard-integrated USB4 controller or a certified Thunderbolt add-in card. The monolithic 6063 aluminum shell with integrated cooling fins ensures stable sustained performance at full speed. Compact and lightweight, it runs driverless plug-and-play on Windows, macOS, Linux and Android.

SPECIFICATIONS

INTERFACE & HARDWARE

Model	Lynk U4
Product Line	Tittron Lynk U4 Series
Upstream	1 × USB4 Type-C
Downstream Port 1	Type-C, Data + PD + DP Alt Mode; up to 40 Gbps, DP Alt Mode up to 8K@60 Hz, PD 3.1 EPR up to 240 W
Downstream Port 2	Type-C, data-only, up to 40 Gbps
Downstream Port 3	Type-C, data-only, up to 20 Gbps (USB 3.2 Gen2×2)
Downstream Port 4	Type-C, data-only, up to 20 Gbps (USB 3.2 Gen2×2)
Controller	Realtek RTS5490, USB-IF Certified
Supported Protocols	USB4, Thunderbolt 3 / 4, DP 2.1, PD 3.1 EPR, PCIe Tunneling
OS Compatibility	Windows / macOS / Linux / Android, driverless plug-and-play
Housing	6063 extruded aluminum with integrated cooling fins
Dimensions	92 × 52 × 16 mm
Weight	Approx. 102 g
Firmware	Firmware upgradable
Host Requirement	Native USB4 / Thunderbolt port; desktops require onboard USB4 controller or certified Thunderbolt AIC
Notes	Shared USB4 link bandwidth; 240 W EPR requires compliant EPR power supply and cable; certified USB4 cable required for full 40 Gbps

KEY FEATURES

- One USB4 input expands to four high-speed Type-C outputs
- Port 1: Data, PD and DP Alt Mode; up to 40 Gbps, 8K@60 Hz video, PD 3.1 EPR up to 240 W
- Port 2: Data-only, up to 40 Gbps
- Port 3 / Port 4: Data-only, up to 20 Gbps
- USB-IF certified controller with native USB4, Thunderbolt 3/4, DP 2.1, PD 3.1 EPR and PCIe tunneling
- Plug-and-play, no driver required for Windows, macOS, Linux and Android
- Field-upgradable firmware for ongoing performance improvements
- Aluminum thermal housing for reliable operation under sustained heavy load

IMPORTANT NOTES

- Upstream requirement: Full performance is only available when connected to a native USB4 or Thunderbolt port. Standard USB-C or USB 3.x ports cannot deliver 40 Gbps, video output or PD pass-through. Desktop systems need an onboard USB4 controller or a certified Thunderbolt add-in card.
- Shared bandwidth: The USB4 link is a shared pipe. When multiple ports run at full load, throughput will be dynamically scheduled and not all ports can hit their peak rated speed simultaneously.
- 240 W PD prerequisite: 240 W PD 3.1 EPR on Port 1 needs a compliant EPR power supply and EPR cable. Ordinary PD chargers and cables cap at lower power and cannot trigger 240 W.
- Video limitation: DP Alt Mode is exclusive to Port 1; all other ports are data-only. Successful video output depends on the host, cable and display capabilities.
- Cable selection: Use certified USB4 or Thunderbolt cables to achieve 40 Gbps; generic USB-C cables rated for 20 Gbps or 10 Gbps will fall back automatically.
- Power note: This hub has no built-in power supply. When attaching high-power peripherals, use a powered upstream source to avoid under-powering connected devices.
- Thermal guidance: Cooling fins must remain unobstructed. Do not cover or enclose the hub in tight spaces. Moderate warming under continuous heavy load is normal.
- Peripheral compatibility: Driverless operation does not guarantee compatibility with every peripheral. Some specialized industrial hardware or custom firmware devices require their own drivers.
- No disassembly: Do not open or modify the unit. Unauthorized disassembly voids warranty and creates short-circuit and fire hazards.

APPLICATIONS

- Premium creator workstations: concurrent high-speed storage arrays and high-resolution displays
- Hardware engineering labs: PCIe tunneling debugging, high-speed peripheral and signal validation
- Thunderbolt / USB4 host expansion: adding scarce high-speed Type-C ports to thin-and-light laptops
- Bulk project deployment: stable solution for research labs, test benches and OEM / ODM integration
- High-speed data acquisition: paired with 40 Gbps storage for fast large-file ingestion
- Multi-monitor desktop setups: driving high-resolution external displays via Port 1 DP Alt Mode