

TX301 1.0_Datasheet

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Overview

5 Gigabit PCIe Network Adapter



Highlights

Blazing-Fast 5 Gbps Networking

Experience smoother streaming, faster downloads, and instant transfers with 5 Gbps speeds—up to 5 × faster than typical Gigabit adapters. TX301 delivers next-level performance to every high-bandwidth task with the latest 5GBase-T technology.[†]



Smarter Network for Your PC, Optimized by AIFlow

AIFlow Internet Accelerator optimizes bandwidth, prioritizes your apps, and keeps every connection running smooth.



Monitor and Diagnose
Your Network



Unlock More
Bandwidth



Accelerate
Critical Apps



Versatile Compatibility

With extreme speed and ultra-low latency, 5GBase-T is backwards compatible with Fast Ethernet and Gigabit Ethernet, automatically negotiating between higher and lower speed connections.



Low-Profile Bracket

In addition to the full-height bracket, a low-profile bracket is also provided for mini tower computer cases. These customized options give you the flexibility to find a bracket that fits your board design perfectly.



Specification

WLAN Features	
Hardware	
Standards	IEEE802.3, IEEE802.3bz, IEEE802.3ab, IEEE802.3u, IEEE802.3x
Interface	1 × PCI Express 3.1 x1, 1 × RJ45 Ethernet Port
Network Media	5GBASE-T/2.5GBASE-T/1000BASE-T/100BASE-TX/10BASE-Te
Data Rates	5 Gbps, 2.5 Gbps, 1 Gbps, 100 Mbps, 10 Mbps
Flow Control	802.3x
LEDs	5G × 1, 2.5G-and-below × 1
Dimensions	120.8 × 78.5 × 21.5 mm (4.8 × 3.1 × 0.8 in)
Others	
Package Contents	5 Gigabit PCIe Network Adapter (TX301) Standard/Low-Profile Brackets Quick Installation Guide 1.5m CAT6A Ethernet Cable
Certification	FCC/CE/IC/NCC/JRF/VCCI/BSMI
System Requirements	Windows 11/10, Windows Server 2016/2019/2022/2025, Linux [‡]
Environment	
Operating Temperature	0°C~40°C (32°F~104°F)
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing

Disclaimers

[†] Maximum wired data throughput rates are the physical rates derived from IEEE Standard 802.3 specifications. Actual wired data throughput is not guaranteed and will vary as a result of environmental factors, Ethernet cable class, and computer performance.

[‡] To ensure compatibility, you may need to update the adapter's drivers after an OS update. You can check the full list of OS support in the download center at tp-link.com/download-center.