QXG-10G2T
Dual-port, 5-speed 10GbE RJ45 network expansion card
For team collaboration and super-fast data transmission

Compatible with NAS and PC / Server
It’s all about speed
10GbE delivers outstanding performance in small network environments

In a SMB or SOHO environment, tools such as Airdrop or Cloud Access make it easy to transfer files. However, when there are a large number of files, the wait time becomes longer and delays occur between devices, causing many people to still use USB to share large files. To address the long wait times caused by device latency or the inconvenience of using USB, we highly recommend upgrading to a 10GbE network for small network environments. A 10GbE network can open a large file in seconds, allowing you to easily share and collaborate with friends, and conveniently backup large files to your computer or NAS over the network in minutes, without the use of USB. Compared to a traditional 1Gbps network, all operations take 1/10th of the time, and 1/100th of the time compared to a 100Mbps network. If you’re a Youtuber, an independent developer, or a user of large data transfers, upgrading to a 10GbE network is an option you won’t want to miss. With the bandwidth provided by a 10GbE network, you can easily upload and centrally store your materials, program files, and valuable data to a NAS, providing you with a wide range of benefits that not only streamline your workflow, but also preserve the storage space of your workstations, which in turn saves waiting time and dramatically improves your work efficiency.
Many QNAP NAS models with 10GbE support

Enjoy higher speed with a QNAP 10GbE NAS. Upgrading your PC/server with 10GbE has become necessary for the optimal performance.

Nearly 40% of QNAP NAS come with built-in 10GbE ports, including enterprise NAS, Thunderbolt NAS, high-end SMB, middle-range SMB, entry-level SMB, etc. When purchasing or upgrading a QNAP NAS for your business or studio, there is a very high chance that you will choose one of the above QNAP NAS series with built-in 10GbE ports, and it is essential to upgrade your other devices with 10GbE network to match the newly purchased QNAP NAS !!!!
Specifications
Easily build 10-gigabit high-speed intranets with RJ45 ports
QNAP new 10GbE high speed network card QXG-10G2T

- Dual-Port 10GbE BASE-T Half Height Network Card
  - 2 x RJ45 10GBASE-T
  - 5-Speed 10/5/2.5/1GbE, 100Mb

- Marvell AQtion AQC107
  - Multi-Gig leading brand
  - Powerful CPU offload
  - Add high-speed 10GbE network ports to your QNAP NAS, Windows® and Ubuntu® computer/server
High-performance QXG-10G2T hardware design

Chip Cooling Module: Maximum contact area with the cooling fins, achieve the best heat dissipation effect.
Fan: Outperforms competing 10GbE NIC with heat-reducing fans to keep the platform cool.

2 x RJ45 10GBASE-T Ports

PCI Express 3.0 x4 bus (backward support for PCI Express 2.0)
The interface provides up to 32Gbit/s bandwidth
QXG-25G2SF-E810 with various brackets for installation in any kind of NAS and PC/server chassis

Bracket for QNAP NAS models

Pre-installed half-height low profile bracket

Full-height bracket is included
**Easy upgrade to 10GbE network via RJ45 cable, support CAT 6 or higher-level cable for 10GbE**

Recommend to use CAT 6 or higher level cable!
Support Multi-Gigabit

**NBASE-T Industry Standard**

<table>
<thead>
<tr>
<th></th>
<th>CAT 5e</th>
<th>CAT 6</th>
<th>CAT 6A</th>
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<tbody>
<tr>
<td>100M</td>
<td>V</td>
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<td>2.5G</td>
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<tr>
<td>10G</td>
<td>X</td>
<td>V (55m)</td>
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QXG-10G2T has powerful **CPU Offload**, which supports a variety of offload and checksum computing optimization techniques, reduces host CPU burden and improves network efficiency. This feature of QXG-10G2T plays an important role on environments that increasingly require high-performance networks and high packet volumes, helping you to increase throughput, reduce latency and optimize system performance.

**QXG-10G2T delivers a High-performance experience at all times**
Flexible development of 10GbE Multi-Gig in NAS, PC, Servers

- Windows 10/11
- Ubuntu 22.04 LTS
- QTS
- QuTS hero h5.0.1 or later
Step 1: Visit the Marvell official website and click on "Support" on the top of the page.

Marvell Official Website Address: “https://www.marvell.com”
Step 2: Click “Publick Driver Downloads” in Tools & Resources.
Step 3: Select “Marvell Public Drivers” in CATEGORY section.
Step 4: Select “Windows” in PLATFORM/OS section.
Step 5: Select “AQC107” in PART NUMBER section and apply.
Step 6: After applying the search criteria, you will see Results Found at the bottom, click "Marvell AQtion Windows 10 and 11 64-bit Driver" to download and install the driver, and then you can use the QXG-10G2T Network Expansion Card in Windows 10/11 OS.
Step 1 to Step 3 are the same as the Windows 10/11 driver download, please refer to the previous section of the presentation to complete and enter the Step 4 action page.

Step 4: Select “LINUX” in PLATFORM/OS session.
Step 5: Select “AQC107” in PART NUMBER section and apply.
Step 6: After applying the search criteria, you will see Results Found at the bottom, click "Marvell AQtion Linux Driver" to download and install the driver, you can use QXG-10G2T network expansion card in Ubuntu OS.
QXG-10G2T comes with a free 3-year product warranty

More information: [QNAP Warranty Service](https://www.qnap.com/service/product-warranty/go/)
## QXG-10G2T product specs

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network Controller</strong></td>
<td>Marvell AQtion AQC107</td>
</tr>
<tr>
<td><strong>Transmission Speed</strong></td>
<td>10/5/2.5/1GbE, 100M</td>
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<tr>
<td><strong>Type of Port</strong></td>
<td>NBASE-T; RJ45</td>
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<tr>
<td><strong>Number of Ports</strong></td>
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</tr>
<tr>
<td><strong>Support for QNAP OS</strong></td>
<td>QTS 5.0.1 or Later Updated Version</td>
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<tr>
<td></td>
<td>QuTS 5.0.1 or Later Updated Version</td>
</tr>
<tr>
<td><strong>Support for other OS</strong></td>
<td>Windows® (Driver installation required)</td>
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<tr>
<td></td>
<td>Ubuntu® (Driver installation required)</td>
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<tr>
<td><strong>PCle Interface</strong></td>
<td>PCI Express 3.0 x 4</td>
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<tr>
<td><strong>Package Content</strong></td>
<td>1 x QXG-10G2T</td>
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<tr>
<td></td>
<td>1 x QIG (Quick Installation Guide)</td>
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<tr>
<td></td>
<td>3 x Bracket (Pre-installed half-height low profile bracket)</td>
</tr>
<tr>
<td><strong>Year of Warranty</strong></td>
<td>3 year</td>
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LIVE DEMO

2 x 10GbE SMB Sequential Throughput
Up to 1000+MB/s read/write performance, transferring files/backups in a snap

**1 x 10GbE SMB Sequential Throughput (1MB)**

- **Write:** 1,182 MB/s
- **Read:** 1,177 MB/s

**2 x 10GbE SMB Sequential Throughput (1MB)**

- **Write:** 2,226 MB/s
- **Read:** 2,354 MB/s

**TS-855X**

Test Environment:
- NAS: TS-855X
- CPU: Intel Atom® C5125 processor, Max 2800 MHZ (8C, 8T)
- Volume type: Raid 5, Samsung 870 EVO 1TB x8
- Client PC: Windows Server 2022, AMD EPYC 7302P 16-Core Processor 2.9Ghz, 96GB RAM

Transferring files/backups in a snap.
Large file transfer speed is also impressive

1 x 10GbE Windows File Drag (10GB)

- Upload: 919 MB/s
- Download: 1,051 MB/s

2 x 10GbE Windows File Drag (10GB)

- Upload: 1,074 MB/s
- Download: 1,830 MB/s

Test Environment:
- NAS: TS-855X
- CPU: Intel Atom® C5125 processor, Max 2800 MHZ (8C, 8T)
- Volume type: Raid 5, Samsung 870 EVO 1TB x8
- Client PC: Windows Server 2022, AMD EPYC 7302P 16-Core Processor 2.9Ghz, 96GB RAM
QNAP Solutions
Multiple QNAP high-speed solutions and build a high-speed network environment
Build a high-Speed hybrid network architecture with a Qhora-301W SD-WAN Wi-Fi 6 router

Build a high-speed hybrid network configuration with the QHora-301W, supporting high-speed Wi-Fi 6 wireless transmission and 10GbE wired network, as well as providing enterprise-grade SD-WAN VPN networking capability, which can be deployed at one time through the cloud for multi-site LAN networking, satisfying the multiple needs of remote, wireless, and wired connectivity of the enterprise’s new-age network architecture, and rapidly building private networks at multiple sites, significantly saving IT manpower and management costs.
QNAP diverse product lines enable you to quickly upgrade from a 1GbE network environment to 10GbE. Allowing you to quickly add high-speed 10GbE ports to QNAP NAS, Windows® and Ubuntu® computers/server, accelerating large-size sharing and intensive data transfers for high-bandwidth applications.
Select from a variety of QNAP managed 10GbE network switches,
Create multiple 10GbE high-speed collaborative aggregation networks

More QNAP Switch with 10GbE Network Speed Support
QNAP QNA Series Adapter

Host with Thunderbolt 3
- 10G/1G dual speed
- SFP+ port

QNA-T310G1S

Host with Thunderbolt 3
- 10G/5G/2.5G/1G/100M five speed
- RJ-45 NBASE-T port

QNA-T310G1T
QNAP offers a wide range of accessories, so even if your device doesn't have a network port, there's a corresponding adapter to quickly upgrade your network environment to 10GbE. Equip with QNAP NAS and switch, let audio editors and other collaborative teams can also enjoy high-speed storage services.
Versatile QNAP NAS with optional 10GbE NIC support for high-speed network transmission
QXG-10G2T
Efficient and Cost-effective Dual Port
10GBASE-T 5-Speed Network Expansion Card