QNAP QSW-IM1200-8C

Industrial-grade fanless
L2 Full 10GbE Managed Switch

Ensure high reliability in rugged environments
Industrial switch can be used in rugged environments, not only for industrial area

<table>
<thead>
<tr>
<th></th>
<th>Server room of usual business office</th>
<th>Rugged environments</th>
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</thead>
<tbody>
<tr>
<td>Air condition</td>
<td>Yes</td>
<td>None or not stable</td>
</tr>
<tr>
<td>Power</td>
<td>Yes and stable</td>
<td>Yes but not stable</td>
</tr>
<tr>
<td>Space for the switch</td>
<td>Well storage</td>
<td>Randomly space</td>
</tr>
<tr>
<td>Maintains people</td>
<td>Yes</td>
<td>Maybe not</td>
</tr>
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</table>
New design of QSW-IM1200-8C start changing the concept of industrial switch, not only the industrial area needed industrial switch

- **Fan less and full cover of heatsink on the top of device**
  Well designed of heat dissipation, and fan less can exclude thermal issue caused by fan.

- **Full 10GbE**
  10GbE SFP+/10GbE Combo let user easily to choose the connector.

- **Using QSS as usual**
  QSS can keep user easy of used, setup device quickly.

- **Multiple power input with 9~54V**
  Don’t need to worry about unstable power input.
Where can QSW-IM1200-8C be installed?

- Not well with heat dissipated
- Open area for storage
- Outdoor space
Surveillance for open space, 10GbE can provide high speed network from control center to each sites

Control center

Outdoor surveillance need high speed network for video transfer.

- 10GbE copper
- 10GbE Fiber
Smart pole of smart city need 10GbE for high speed transfer

Smart pole for the traffic, also need high speed connection back to control center, including different systems, 10GbE can make sure all the communication doing well.

- Signal light
- Camera
- Electronic dashboard

Control center
10GbE can help smart factory become much smart

10GbE make connection smoothly between multiple systems

- AI robotic arm
- Automated Guided Vehicle(AGV)
- Wireless system
- Door/Access control
- Control center
- Surveillance
QSW-IM1200-8C Hardware
Device panel

Front

Status LED

Power 1, Power 2, Power 3 status LED

Back

New power input design
- Three DC in 9~54v
- Power circuit protection

8 x 10GbE SFP+/RJ45 combo ports
4 x 10GbE SFP+ ports
Don’t need worry about the reliability to the fan

Serious thermal verification

Non natural convection operating temperature -30°C-45°C (-22°F –113°F)
Natural convection operating temperature (0.5~0.7m/s) -30°C-65°C (-22°F –149°F)

Max working temperature of the housing
Top 76°C(169°F)
Bottom 78°C(172°F)
Optimized thermal design & quality components

Large conductive and directive heatsink

All solid capacitors
Industrial-Temperature range SFP+ for testing

**SPECIFICATION**

**PRODUCT FEATURES**
- Hot Pluggable SFP+ form factor
- Supports 10.3125Gb/s
- Low Power Dissipation, Max 0.8W
- Operating Case Temperature: -40°C~85°C
- Up to 80m transmission with OM2 MMF
- Up to 300m transmission with OM3 MMF
- SFF-8472 Management Interface
- SFF-8432: Pluggable Module
- SFF-8431: General Electrical
- GR-468: Reliability Qualification
- IEEE 802.3ae: Physical Layer Specifications and Management Parameters
- ROHS-6: Environment Safety

**APPLICATIONS**
- Ethernet for 10GBASE-SR
- InfiniBand QDR, DDR, SDR
Rich management functions

- VLAN
- Link Aggregation Group (LAG)
- Rapid Spanning Tree Protocol (RSTP)
- Link Layer Discovery Protocol (LLDP)
- IGMP snooping
- Access Control Lists (ACL)
- Simple Network Time Protocol (SNTP)
- Quality of Service (QoS)
Easy to use GUI design

• Rich functions and easy to use.
• Straightforward web design lets user realize the setup logic quickly.
Raise network speed with multiple network cable

- Link Aggregation (LAG) can aggregate multiple network cable into a single logical network.
- Quick and direct to have a network more than 10GbE.
Split office network into different area

- Virtual network (VLAN) can split office network.
- Easy to manage, can set up routing to connect different networks.
- Separate employee and guest network.
Deliver streaming to dedicate device specifically

- IGMP snooping can record streaming request for each end point device.
- Avoid packet lost or wrong stream broadcast.
Easy access control

- Access Control List (ACL) can control access specifically.
- To avoid security issue.
Firmware version live check

- One-click update.
- Firmware version auto detect.
Always looking for best routing

- Rapid Spanning Tree Protocol (RSTP) live check best networking route.
- Always using most effective route for data transfer.
QSW-IM1200-8C has more

- Ethernet flow control (IEEE 802.3x) managing packet transfer, avoid packet lost.
- Link Layer Discovery Protocol (LLDP), easy to know which devices are connected.
- Network speed auto detect (Auto negotiation) · let devices can connect even in different network speed.
Perfectly integrated with QNAP 10GbE products
12 port 10GbE combo port give flexible deployment.

- Embedded or extension 10G/5G/2.5G NAS
- High speed network connect to NAS/Server
- Base-T / SFP+

PC upgrade 2.5G/5G/10G

- Laptop upgrade 5G
- MacBook upgrade 10G
Tablet NAS with embedded 2.5/5/10GbE

With 10GbE BASE-T

TS-872N / TVS-672N

TVS-872XT / TVS-672XT / TVS-472XT

TS-832PX

TS-431X3

With 10GbE SFP+

TVS-h1688X / TVS-h1288X

With 5GbE BASE-T

TVS-872N / TVS-672N

With 2.5GbE BASE-T

TS-h886 / TS-h686

TS-653D / TS-453D / TS-253D

TS-431P3 / TS-231P3
Rack mount network NAS with embedded 2.5/5/10GbE

With 10GbE BASE-T & SFP+

- TS-h1283XU-RP
- TS-h977XU-RP
- TS-451DeU
- GM-1002/1002
- TVS-x72XU
- TS-x73AU
- TS-x53DU
- TS-x32PXU
  + 2x 10GbE SFP+

With 2.5GbE BASE-T

- TS-h1277XU-RP
- TS-32PXU
Network extension: rich PCIe network extension card

10GbE series
- QXG-10G2SF-CX4: 2 x SFP+
- LAN-10G2T-X550: 2 x RJ45
- QXG-10G2T-107: 2 x RJ45
- QXG-10G1T: 1 x RJ45

5GbE series
- QXG-5G Family:
  - 1 x RJ45
  - 2 x RJ45
  - 4 x RJ45

2.5GbE series
- QXG-2.5G Family:
  - 1 x RJ45
  - 2 x RJ45
  - 4 x RJ45
Network extention: hand carry adaptor

**QNA-UC5G1T**
- **USB 3.2 Gen 1**
  - RJ45 NBASE-T
  - 4 speed: 5G/2.5G/1G/100M

USB Plug and play upgrade your PC/Laptop to 10GbE high speed network

https://www.qnap.com/en/product/qna-uc5g1t

**QNA-T310G1T**
- **Thunderbolt 3**
  - 10GbE NBASE-T port
  - 5 speed: 10G/5G/2.5G/1G/100M

USB Plug and play upgrade your PC/Laptop to 10GbE high speed network, through Thunderbolt

QNAP

QSW-IM1200-8C

is your best choice!

Industrial design | Fanless | Highest operation temperature 0°C-60°C | 12 x 10GbE ports switch | Managed switch