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AQS3248 2.5G Ethernet Switch
48x 2.5GT + 2x SFP+ Switch
Cost Effectiveness 2.5G L3 Management Swtich

With the increasing demand for 2.5G broadband access, 2.5G switches began to gradually replace traditional gigabit switches. In addition to our AQS3624 of 24 2.5G ports and 6 10G optical switches launched earlier, we retains 20Gbps uplink and provides 48 2.5G ports, which not only support high-speed access and high switching capacity, but also have a high cost-effective ratio and low power consumption. Our AQS3248 is one of the best choice for multi-port 2.5G port switches for industrial and commercial and professional applications.

Application scenes like the convergence of broadband access networks, such as XGPON, Wi-Fi 6, 5G base stations and application scenarios of local area networks include the network of NAS servers and 2.5G networking.
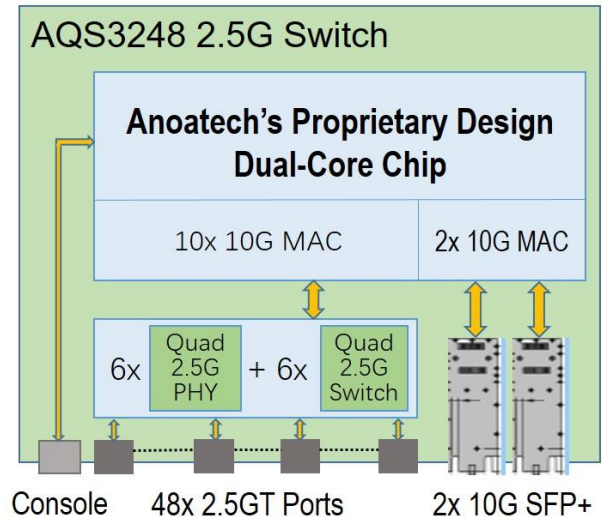

Figure 1. AQS3248, Block Diagram

- 48 2.5G ports, backward compatible with 1000Mbps
- 2 10G optical uplink ports
- efficient forwarding, high speed and traffic stabilization
- Support L3 network management functions
- Support uplink convergence
- Low power consumption and power saving mode
- Cost effective

Product Highlights

Port Capacity

Our AQS3248 switch is designed with a non-Euro-American switching chip with a specific 2.5G PHY, allowing it to provide 48 2.5Gbps Ethernet ports and 2 10G optical ports upstream.

Cost-Effective Chipset Solution

For the AQS3248 switch design, its switch chip using memory transfer mechanism, internal integration of high-capacity memory, with 120Gbps of transponder bandwidth, can provide 240Gbps switching capacity, and chip low power consumption, small packaging, through the exclusive expansion technology, can make all ports high-speed transmutation and maintain high switching capacity. The AQS3248 switch provides the speed performance of the 2.5G platform for small and medium-sized businesses and operators for access or edge applications, providing a cost-effective solution and is the best choice for multi-port 2.5G Ethernet switches.

Plug-and-Play

The 2.5G ports of our AQS3248 switch are using adaptive mode, backward compatible with 10M/100M/1000Mbps standard RJ45 port.   It is simply plug and play with the original Cat 5e cable to upgrade to 2.5G fast speed network.   It adopts storage forwarding mechanism, internal integrated high-capacity storage, can ensure that all ports can achieve non-blocking speed transmission, adapt to more unexpected situations.

L3 Management and Diversified Management Features

In addition to the common L3 layer management, our AQS3248 switch can enhance to support some diversified management features like stack management, DHCP Server, uplink convergence, cloud management, network time synchronization, etc.   We can also base on your software feature requirement to develop your specific switch for your own use.

Customization Service and Existing Models

Our company has the technical and engineering abilities to develop a new switching product in both hardware and software aspect.   We can also base on customer requirements, specific industries or application scenarios, to design the unique specifications and requirements of our customers' own products.

Existing Model Port Specification	AQS3624	AQS3432	AQS3240	AQS3248
2.5G Base-T	24	32	40	48
10G SFP+	6	4	2	2

AQS3248 48x 2.5G 交換機

Hardware Specifications

Item (AQS3248)	Details
Ethernet Port	48x 10M/100M/1G/2.5G Base-T RJ45
Optical Port	2x 10G SFP+
Control Port	1x RJ45-R232 Serial Interface (115200,8,N,1)
Power	1x AC 100~240V 50/60Hz
Power Consumption	60W
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3Z, IEEE802.3X, IEEE802.1Q, IEEE802.1p, IEEE802.3ab, IEEE802.1D, IEEE802.1X
Switching Capacity	240Gbps / non-blocking
Switching Mode	Store-and-Forward
Packet Buffer	16Mbit
MAC Address Table	32K-entry
Jumbo Frame	12KB
Storage Conditions	Storage Temperature : -10 ~ 85℃
Operating Conditions	Operating Temperature : 0 ~ 70℃

Software Specifications

Status	Feature List
☑	IP, MAC, Port, VLAN Binding Combinations
☑	802.1p priority
☑	VLAN
☑	IGMP Snooping
☑	MLD Snooping
☑	Multicast VLAN Registration (MVR)
☑	QoS
☑	ACL
☑	IPV4 Static Route Setup
☑	IPV4 Static Route Setup
☑	DHCL Server, Client, Relay, DHCP Snooping