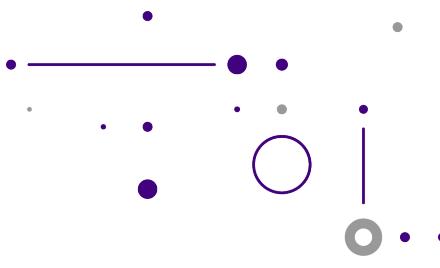# REV-S5221 series
L2+ Managed Switches

The S5221 series REV switches are intelligent Layer 2+ GigabitEthernet switches, designed for use at the access level in internet service providers and enterprise networks.

Main features:

- 1/10GE SFP+ Uplink ports
- Wide range of security features
- Non-blocking switching matrix
- Power supply backup
- Simple configuration via REV CLI
- Built-in lightning protection on all copper ports

Switch models

Model	10/100/1000Base-T	Combo ports 10/100/1000Base-T| 100/1000Base-X SFP	100/1000BaseX-SFP	1/10G SFP+
REV-S5221-24TX-POE	24	–	–	4

High performance

The REV-S5221 series switches are built with modern chipsets and have a non-blocking switching matrix that allows all switch ports to operate simultaneously at full speed. It also guarantees high performance and minimal network latency.

Model	Switching Capacity	Forwarding Rate	MAC
REV-S5221-24TX-POE	128 Gbps	95,2 Mpps	16K

Resilience

For organizing resilient networks, support for standard protocols STP/RSTP/MSTP.

Link aggregation functionality using LACP or static aggregation allows combining up to 8 ports into one logical interface, increasing the bandwidth ability and resilience at the data link level.

Due to equipping each RJ-45 port with lightning protection, the switch components are protected from damage when high voltage applied to the port.

Multicast management

Switches of the series have all the necessary functionality for multicast management on Layer 2: IGMP Snooping, MVR, IGMP packet filtering, and multicast traffic filtering. This allows arranging an efficient transporting of multicast-based services, such as IPTV.

Quality of Service (QoS)

Support for 8 hardware queues per port allows creating flexible service policies for different types of traffic, thus ensuring high quality of sensitive services under high load conditions. Traffic can be classified by field values in L2-L4 headers, including CoS, DSCP, VLAN ID, IP/MAC addresses, and TCP/UDP ports.

Model	Multicast group	Queues per Port	ACL
REV-S5221-24TX-POE	1024	8	1536

Security

The S5221 series switches provide a wide range of security features for both service providers and enterprise networks. Hardware Access Control Lists (ACLs) can filter traffic by L2-L4 header fields without performance brake.

Dimensions and power supply

The REV-S5221 series switches include REV-S5221-24TX-POE, which equipped with an DC-slot for DC 48V backup power supply.

Model	Dimension	Weight (Brutto)	Power Consumption	Cooling	Power-supply circuit
REV-S5221-24TX-POE	442 x 44 x 208 mm	4,00 kg	425 Watt	Active	100-240AC

Operational convenience

S5221 series REV switches have a convenient and intuitive CLI. The system supports all the necessary functionality of the Enterprise/ISP level for building modern data networks and has extensive management and monitoring capabilities via CLI, Web and SNMP.

PoE+ support

The REV-S5221 series switches support PoE 802.3af и PoE+ 802.3at standards with a smart capacity management. The PoE technology reduces cost of ownership and makes network maintenance easier. It allows to supply with power directly from switch different types of equipment such as WiFi hotspots, IP/Video phones, thin clients and others.

Model	Number of PoE ports	Total PoE capacity
REV-S5221-24TX-POE	24	370 Watt

Technical Brief:

Switching type
· Store-and-Forward

MAC address table
· 16K entries

MAC address table features
· Limiting max number MAC addresses on a port, switch
· Static MAC addresses
· MAC-notification

Flow Control
· 802.3x Flow Control

Jumbo frame
· 12 Kbytes

Flash memory size
· 64 Mbytes

RAM size
· 256 Mbytes

Ring Protection
· ERPS ITU-T G.8032*

Loopback Detection
· Per-port

VLAN
· 4094 VLAN
· Protocol VLAN
· Voice/MAC VLAN

L3 functions
· Static routing
· 32 IP interfaces
· 512 IPv4 routes
· 2K IPv4 ARP

Spanning Tree
· 802.1D STP
· 802.1W RSTP
· 802.1S MSTP
· Root/BPDU Guard
· BPDU Forwarding

Port Aggregation
· LACP 802.3ad / 802.1ax
· Up to 64 groups per switch / up to 8 ports in group
· Load balance src/dst MAC, src/dst IP

Multicast
· 1024 IGMP groups
· IGMP v1/v2/v3 snooping
· IGMP Fast leave
· IGMP Snooping Querier
· Multicast VLAN Registration
· IGMP Fillter
· IGMP limit

QoS
· 8 queues per port
· Bandwidth Control
· Traffic classification per port, ACL, VLAN ID, CoS, ToS, DSCP, IPv6 Flow Label, TCP/UDP ports, protocol type, traffic class IPv6, IPv4
· Remarking DSCP, CoS/802.1p, Precedence, ToS
· SP, WFQ

ACL
· 1536 ACL
· Filtering based on: switch port, VLAN ID*, 802.1p priority, MAC-address, EtherType, IPv4-address, IPv6-address*, ToS, DSCP, protocol type, port number TCP/UDP
· Userdefined ACL*
· ACL for telnet/SSH connections

DHCP
· IPv4 DHCP Client/Relay
· IPv4 DHCP Snooping, Option 82
· DHCP Snooping Binding (IP Source Guard)
· DHCP Server

Security

- SSH v1/v2
- SSL v1/v2/v3
- Limiting the number of MAC addresses on a port
- MAC Authentication Bypass
- Limiting Broadcast/Multicast/ Unicast packets on a port by pps/Kbps
- Access Management (IP-MAC-Port Binding)
- Port Security
- Port Isolation
- CPU protection

Logging

- RAM logging
- Flash logging
- Logging to Syslog server
- Configuring the logging level
- Logging executed command

Management and monitoring

- TACACS+
- RADIUS
- Different levels of user privileges
- Passing privilege levels via RADIUS
- SCP/SFTP/TFTP/FTP, CLI, Telnet, Console
- SSH
- SNMPv1/v2c/v3, SNMP Traps, Public & Private MIB interface
- NTP
- Password encryption
- Backup and restore settings
- Ping, Traceroute
- Syslog (IPv4/IPv6)
- VCT, DDM
- Multiple IP Interface
- LLDP
- Iperf3 client
- Virtual Cabel Test (VCT)
- UPS Connection monitoring and power supply, voltage and amperage charge/ discharge UPS (for UPS models)
- PPPoE Intermediate agent

QinQ

- Port-Based
- Selective QinQ

Traffic Mirroring

- Support 4 groups
- One-to-one / Many-to-one

Humidity

- 5%-95%, no condensation

Storage temperature

- 0C ~ 50C

Storage temperature

- -40C ~ 70C

Surge protection

- Up to 4 kV* (*exept REV-S5221-24TX-POE)

* - functionality will be implemented in future software versions

Ordering information

Model	Description
REV-S5221-24TX-POE	L2+ Managed Switch, 24 x 10/100/1000Base-T, 4 x 1/10G SFP+. Power: 220V AC. POE 370W

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