

### General

- 12Mbit Packet Buffer
- Support Jumbo Frame 12KB
- Switching Capacity 128Gbps
- Up to 16K MAC Address Table
- Support 29 Mac Address per Interfaces

### Standard Compliance

- 802.3 10Base-T
- 802.3u 100Base-T
- 802.3ab 1000Base-T
- 802.3ae 10GBase-X
- 802.3x Flow Control Capability
- 802.3 Auto-negotiation
- 802.3ad Port trunk with LACP
- 802.3az Energy Efficient Ethernet
- 802.1p/q Class of Service
- 802.1d Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1x Port Based Network Access Control
- 802.1ab Link Layer Discovery Protocol (LLDP)
- 802.3af/at

### IP Version

- IPv4 / IPv6

### VLAN

- Support STP
  - STP/RSTP
- IEEE802.1Q VLAN
  - Tag-based/Port-based
- MAC-based VLAN (Dynamic)
- Management VLAN
- Mirror
- Support EEE (Energy Efficient Ethernet)
- Support Voice VLAN (OUI Mode)
- Support Surveillance VLAN (OUI Mode)

### QoS

- Support 8 Queues
- Class of Service
  - 802.1p CoS/DSCP/CoS-DSCP
  - IP Precedence
- Priority Queue Schedule
  - Weighted Round-Robin (WRR)
  - Strict Priority
- Rate Limit
  - Port-based (Ingress/Egress)

### Multicast

- Up to 256 Multicast Groups
- IGMP Snooping v2/v3 (BISS)
  - IGMP Querier
  - Immediate Leave
- MLD Snooping v1/v2

### Security

- Port Isolation (Protected Port)
- Storm control
- DoS Attack Prevention
- IP Source Guard
- IP Conflict Prevention
- Support Loop detect & Protected

### PoE

- PoE Mode: Switch allocates sufficient power the PoE PD asked for, and dynamically distribute power to all devices.
- Status:
  - Current Used/Priority/Port Status
- Support per port PoE scheduling to turn on/off the PDs
- Auto-Checking
  - Check the link status of PDs
  - Reboot PDs if there is no response
- Power Budget: 140W

### Link Aggregation

- Support 8 Link Aggregation Groups with Static & LACP types
  - Up to 8 Ports for Each Group
- Support Traffic Load Balancing

### Network Function

- DHCP Server
  - Will expand to 30 entries
  - Support 8 Subnets
  - Up to 1021 pool of each Subnet
  - Relay
  - Snooping
  - IP Source Guard
  - Option 82,66,67
- Route
  - Static/VLAN Route
- Virtual Router Redundancy Protocol (VRRP) \*

### Diagnostics

- CPU/RAM/Port Utilization
- Port-based Cable Test
- Syslog
  - Volatile/Non-Volatile Memory
  - External Server
  - Mail Alert
- Ping

### Management

- Multiple User Account
  - Two-Level Security (Admin/User)
- TR-069
- OpenVPN
- Support IEEE802.1AB, Link Layer Discovery Protocol (LLDP) with LLDP-MED extensions
- Support SNMP v1, v2c, v3
  - Support Generic Traps
  - Support Public and Private Community
- Simple Network Time Protocol
- Support HTTP/HTTPS Web User Interface
- HTTP / HTTPS / TFTP / TR-069 Upgrade/Backup of
  - Firmware
  - Configuration
- System Reboot / Factory default
- Support Command Line Interface via Telnet/SSH
- Onvif Surveillance
- Access Manager
  - HTTP / HTTPS / Telnets / SSHs
- Support DrayTek Switch Management
  - ACS
  - VigorConnect
  - SWM

### Hardware Interface

- 24 x 10/100/1000Mbps Giga Ethernet with PoE+ PSE, RJ-45
- 4 x 1000Mb/10Gb Ports, SFP+
- 1 x Factory Reset Button

### Physical

- Temperature
  - Operating: 0 ~ 50°C
  - Storage: -20 ~ 70°C
- Humidity
  - Operating: 10 to 90% RH (Non-condensing)
  - Storage: 5 to 90% RH (Non-condensing)

