

- 8 x Gigabit capable ports & 2 x GbE SFP ports
- 8 x Gigabit PoE capable ports with PoE power budget up to 140 watts (P2100)
- VLAN configuration based on 802.1q tag, MAC address, and protocol
- Auto Voice VLAN and Auto Surveillance VLAN to optimize call and video quality
- Secure Local Network by 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Authentication by local database, multiple RADIUS, and TACACS+ servers
- Support SNMP v1/v2c/v3, RMON, and Syslog for network monitoring
- Compliant with Switch Management of Vigor Router and VigorACS
- Support IPv6 with MLD Snooping, IPv6 ACL, and IPv6 DNS Resolver
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PoE (P2100)

Deliver power and data over one ethernet cable, turn on/off the PoE device periodically with PoE Schedule.

Auto Surveillance & Voice VLAN

Recognize traffic from IP cameras and IP phones automatically and add CoS tag for QoS prioritization.

IP Conflict Prevention

Improve network stability by avoiding IP conflicts caused by a misconfigured or malicious host.

ONVIF-Friendly

Recognize the ONVIF devices, display surveillance topology, provide UI for video streaming and device maintenance.

Quality of Service

Improve the performance of critical traffic by prioritizing the traffic with CoS, DSCP, and IP Precedence tag.

Web-Based GUI

Easily manage and monitor the network through the web-based console with graphics showing ports and hardware status.

Multiple Admin Accounts

Multiple Admin accounts with two levels of administrator privilege.

Central Switch Management

Set up VLAN easily from the router and get a centralized hierarchy view of the switches.



General

- Up to 8K MAC Address Table
 - Dynamic Address
 - Static Address
- 4.1Mbit SRAM Packet Buffer
- Support Jumbo Frame 9KB
- Switching capacity 20Gbps
- Support 11 Mac address per interfaces
 - 10 ports + Management

Standard Compliance

- 802.3 10Base-T
- 802.3u 100Base-T
- 802.3ab 1000Base-TX
- 802.3x Flow Control Capability
- 802.3 Auto-negotiation
- 802.3ad Port trunk with LACP
- 802.3az Energy Efficient Ethernet
- 802.1q VLAN
- 802.1p Class of Service
- 802.1d Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree
- 802.1x Port Based Network Access Control
- 802.1ab Link Layer Discovery Protocol (LLDP)
- 802.3af/802.3at (P2100)

IP Version

- IPv4 / IPv6

VLAN

- IEEE802.1Q Tag-base VLAN
 - Tag-based
 - Port-based
- QinQ (Basic)
- General VLAN Registration Protocol
- Supports Following Types of VLANs
 - Voice VLAN (OUI Mode)
 - Surveillance VLAN (OUI Mode)
 - Protocol/MAC-based/Management VLAN
 - Port Isolation

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)
- Storm Control
 - Broadcast
 - Unknown Multicast
 - Unknown Unicast

Link Aggregation

- Support 4 Link Aggregation Groups with Static & LACP types
 - Up to 8 Ports for Each Group
- Support Traffic Load Balancing

Security

- RADIUS
 - Authentication for Management Service
 - VLAN attribute
 - 802.1x
- TACACS+ Authentication
- Management Account
- 802.1x – Single/Multiple
 - Port-based
 - MAC-Based
- Static Port Security
- Storm contro
 - Broadcast, Unknown Multicast/Unicast
- DoS Attack Prevention
- Access Control List
 - MAC/IPv4/IPv6
- Port Security
- IP Source Guard and ARP Inspection
- DHCP Snooping with Option 82
- Loop Protection

PoE (P2100)

- 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

Multicast

- Up to 256 Multicast Groups
- IGMP Snooping v2/v3 (BISS)
- MLD Snooping v1/v2 (BISS)
- Multicast VLAN Registration

Diagnostics

- Port Mirroring
- Port-based Cable Test
- Ping
- Syslog
 - Volatile/Non-Volatile Memory
 - External Server

Network Function

- Virtual Router Redundancy Protocol (VRRP) *
- Route Static/VLAN
- DHCP Server (Supports 8 Subnet)
 - Up to 1023 pool of each Subnet
 - Relay *
 - Snooping
 - IP Source Guard
 - Option 82,66,67

Management

- TR-069
- 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
 - System & Interface MIB
 - Bridge MIB & its Extnsions
 - Entity MIB
 - Ethernet-Like MIB
 - Interface Group MIB
 - Community MIB
 - SNMPv3 MIB
- Simple Network Time Protocol
- Supports RMON Groups 1,2,3,9
- Firmware Upgrade via HTTP/HTTps/TFTP/
- Console port/TR-069
- Configuration Upgrade/Backup via HTTP/TFTP
- Support HTTP/HTTps Web User Interface
- System Reboot
- Support Command Line Interface via Telnet/SSH
- Support EEE (Energy Efficient Ethernet)
- Support DrayTek Switch Management
 - ACS
 - VigorConnect
 - SWM

Hardware Interface

- 8 x 10/100/1000Mbps Giga Ethernet, RJ-45 (G2100)
- 8 x 10/100/1000Mbps Giga Ethernet with
- PoE+ PSE, RJ-45 (P2100)
- 2 x 1000Mbps Fiber, SFP Slot
- 1 x Factory Reset Button

Environmental / 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)

*Firmware Upgradeable