

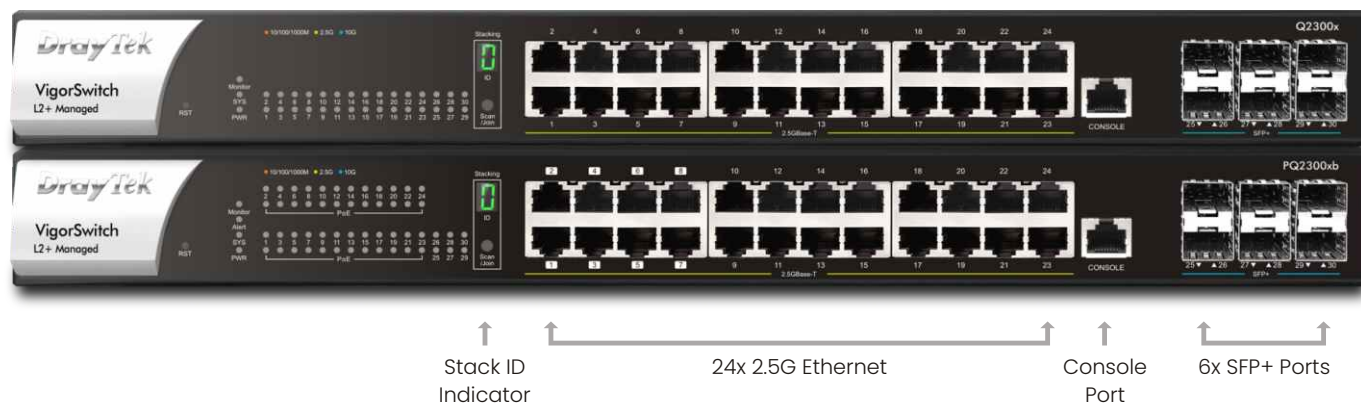
# DrayTek

## VigorSwitch PQ2300xb/Q2300x

### 2.5GbE L2+ Managed Switch



DrayTek VigorSwitch Q2300x series features 2.5GbE ports for LAN and 10G SFP+ ports for uplink/downlink. When used with WiFi 6 VigorAPs (e.g., VigorAP 962C), the Q2300x series delivers full WiFi 6 performance to LAN clients. Supporting advanced Layer 3 features, DHCP Server and VLAN Routing. The PoE model PQ2300xb includes 8 PoE++ ports providing up to 90W per port and 16 PoE+ ports.



#### Interface

|              |                                                                          |
|--------------|--------------------------------------------------------------------------|
| LAN Port     | 24x 10/100/1000/2500Mbps Ethernet, RJ-45<br>6x 1000Mbps/10Gbps SFP+ slot |
| Console Port | 1x RJ-45                                                                 |
| Button       | 1x Factory Reset<br>1x Stacking                                          |

#### Performance

|                    |                        |
|--------------------|------------------------|
| Buffer Size        | 16 Mbit                |
| Switching Capacity | 240 Gbps               |
| Forwarding Rate    | 178.56 Mpps (64 bytes) |
| MAC Address Table  | 32k                    |
| Jumbo Frame        | Up to 12 KB            |
| L3 Routing Table   | •                      |

#### PoE (PQ2300xb)

|                             |           |
|-----------------------------|-----------|
| PoE++ (802.3af/at/bt) Ports | 8         |
| PoE+ (802.3af/at) Ports     | 16        |
| PoE Power Budget            | 400 watts |
| Scheduled On/Off            | •         |

#### Layer 3 Features

|              |   |
|--------------|---|
| Static Route | • |
| VLAN Route   | • |
| DHCP Server  | • |

#### Stacking

|                        |            |
|------------------------|------------|
| Max. Stackable Devices | 4          |
| Stacking Topology      | Line, Ring |

## Networking Standards

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Standards | 802.3af PoE/802.3at PoE+/<br>802.3bt PoE++ (PQ2300xb)<br>802.3 10Base-T<br>802.3u 100Base-T<br>802.3ab 1000Base-T<br>802.3bz 2.5GBase-T<br>IEEE802.3ae 10GBase-X<br>802.3x Flow Control<br>802.3 Auto-Negotiation<br>802.1q Tag-based VLAN<br>802.1p Class of Service<br>802.1d STP<br>802.1w RSTP<br>802.1s MSTP<br>802.3ad LACP<br>802.1ad QinQ<br>802.1x Port Access Control<br>802.1AB LLDP<br>802.3az EEE |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Spanning Tree

|      |   |
|------|---|
| STP  | • |
| RSTP | • |
| MSTP | • |

## VLAN

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Max.Number of VLAN | 512                                                                                                   |
| VLAN Type          | 802.1q Tag-based<br>MAC-based<br>Protocol-Based<br>Management VLAN<br>Voice VLAN<br>Surveillance VLAN |
| GVRP               | •                                                                                                     |
| Q-in-Q             | Basic                                                                                                 |

## ONVIF Surveillance

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Discovery                 | •                                                                                    |
| Surveillance Topology     | •                                                                                    |
| Real-Time Video Streaming | •                                                                                    |
| ONVIF Device Maintenance  | Device Info, Network Settings,<br>Reboot, Time Settings, Reset<br>to Factory Default |

## QoS

|                        |                                    |
|------------------------|------------------------------------|
| Number of QoS Queues   | 8                                  |
| Queue Scheduling       | SPQ, WRR                           |
| CoS (Class of Service) | CoS, DSCP, CoS-DSCP, IP Precedence |
| Rate Limiting          | •                                  |

## Multicast

|                                   |               |
|-----------------------------------|---------------|
| IGMP Snooping                     | v2, v3 (BISS) |
| IGMP Querier                      | •             |
| MLD Snooping                      | v1, v2        |
| Max. Number of Multicast Group    | 256           |
| Group Throttling/Filtering        | •             |
| MVR (Multicast VLAN Registration) | •             |

## Security

|                              |                            |
|------------------------------|----------------------------|
| Authentication Server        | RADIUS, TACACS+            |
| 802.1X/MAC Authentication    | •                          |
| IP Source Guard              | •                          |
| Traffic Control              | DoS Defense, Storm Control |
| Dynamic ARP Inspection (DAI) | •                          |
| DHCP Snooping                | •                          |
| IP Conflict Prevention       | •                          |
| Loop Protection              | •                          |

## Link Aggregation

|                                     |              |
|-------------------------------------|--------------|
| Max. Number of Group                | 8            |
| Max. Number of Member in Each Group | 8            |
| Type                                | Static, LACP |
| Traffic Load Balancing              | •            |

## Management

|                                     |                                                                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Local Service                       | HTTP, HTTPS, Telnet, SSH v2                                                                                                          |
| Config Backup/Restore               | •                                                                                                                                    |
| Dual Image                          | •                                                                                                                                    |
| 2-Level Administration Privilege    | •                                                                                                                                    |
| Access Control                      | Access List                                                                                                                          |
| OpenVPN Client                      | •                                                                                                                                    |
| sFlow                               | •                                                                                                                                    |
| SNMP                                | v1, v2c, v3                                                                                                                          |
| RMON Group                          | 1, 2, 3, 9                                                                                                                           |
| SNTP (Simple Network Time Protocol) | •                                                                                                                                    |
| LLDP                                | •                                                                                                                                    |
| LLDP-MED                            | •                                                                                                                                    |
| Mail Alert                          | Port Status, Port Speed,<br>System Restart, IP Conflict,<br>Hardware Monitor,<br>Device Check, PoE Warning,<br>ONVIF IP Cam Snapshot |
| VigorRouter Management (SWM)        | •                                                                                                                                    |
| VigorConnect Management             | •                                                                                                                                    |
| VigorACS Management                 | •                                                                                                                                    |

## OpenFlow

|            |      |
|------------|------|
| Version    | 1.3  |
| Table Size | 1920 |

\*The OpenFlow functionality is project-based and must be activated by DrayTek HQ. Please contact your Sales for further inquiries.

## Physical

|                       |                          |
|-----------------------|--------------------------|
| Operating Temperature | 0 to 50°C                |
| Storage Temperature   | -20 to 70°C              |
| Operating Humidity    | 10 to 90% non-condensing |
| Storage Humidity      | 5 to 90% non-condensing  |