# Ethernet Switches

## Simple cloud management

Datto switches continue to deliver on the expectation of simple, robust cloud-management capabilities to ensure a smooth evolution while delivering orders of magnitude improvements in speed and functionality.

### Next level flexibility

Datto provides powerful, business-class ethernet switching products with affordable models and flexible product options making it easy to find a solution to meet most requirements for IP business communications.
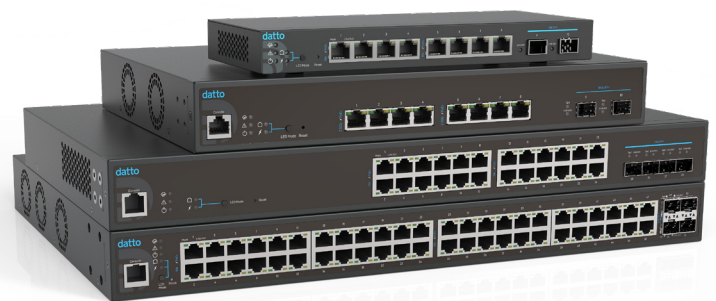
- Low, medium and high density configurations
- High capacity optical uplink ports
- Scalable power budget for PoE devices
- Low noise-level cooling
- High-temperature thermal operation
  - Configuration templates allow for quick provisioning of common configuration
  - IP Routing (with future software release)

### Multi-gigabit 2.5G/10G switch

In select configurations, take advantage of multi-gigabit copper access ports to increase network performance and boost high bandwidth applications such as backup and restore, or maximize the benefits of a Wi-Fi 6 WLAN deployment.

### Power over ethernet on all ports

Datto next generation switches deliver total power output ranging from 110W to 410W to energize compatible devices. Eliminate the need for additional power runs and bulky injectors to satisfy the growing demand of high consumption endpoints such as wireless access points, IP cameras, smart lighting, digital signage or point-of-sale systems.

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| | DSW100-8P-2G | DSW100-24P-4X | DSW100-48P-4X | DSW250-8P-2X |
|---|---|---|---|---|
| | Gigabit Ethernet | | | Multi-Gigabit Ethernet |
| **Port Density and Power Output** | | | | |
| Copper Ports | 8x GigE | 24x GigE | 48x GigE | 8x2.5 GigE |
| Optical Ports | 2 SFP | 4 SFP+ | 4 SFP+ | 2 SFP+ |
| PoE Budget (W) | 110 | 250 | 410 | 240 |
| **Layer 1 Features** | | | | |
| PoE Management | Power on/off per port, power class configuation, power feeding with priority, user-defined power limit, IEEE 802.az Energy Efficient Ethernet (EEE) | | | |
| **Backplane Capacity** | | | | |
| Backplane Capacity (Gbps) | 20 | 128 | 176 | 80 |
| **Layer 2 Specifications** | | | | |
| Maximum VLANs | 4096 | 4096 | | 4096 |
| Max Frame Size | Up to 10K bytes | Up to 12K bytes | Up to 9K bytes | Up to 10K bytes |
| Unicast Mac Address | 8K | 16K | 32K | 16K |
| Packet Buffer Memory | 4.1M bits | 12M bits | 16M bits | 12M bits |
| Layer 2 Features | 802.1Q VLANs, Port Trunking/802.3ad link aggregation, port mirroring, auto-detect uplink port, port isolation, IGMP snooping, rate limiting (Tx/Rx), flow control, jumbo frames, LLDP (Up to 256 unique VLAN IDs can be configured) | | | |
| Spanning Tree Protocol | 802.1w Rapid Spanning Tree (RSTP), 802.1s Multiple Spanning Tree (MSTP) | | | |
| VoIP Provisioning | QoS, Voice VLAN + OUI list, LLDP-MED | | | |
| **Layer 3 Specifications [*= In future software upgrade]** | | | | |
| IPv4 Static Route and Default Route* | Up to 63 entries | | | |
| DHCP* | DHCP Relay, DHCP Snooping | | | |
| Access Control | MAC, IPv4 Based ACLs. Actions: Permit/Deny | | | |
| Quality of Service | 802.1p/CoS, DSCP | | | |
| **Remote and Local Management and Monitoring** | | | | |
| Cloud Management | Full support within Datto Network Manager, no on-site appliance required. | | | |
| SNMP Polling | v1/v2c, supporting MIBs RFC1213, RFC14493, RFC1757, RFC2674 | | | |
| Troubleshooting Tools | Cable Diagnostics, Ping, Traceroute | | | |
| **Physical & Environment** | | | | |
| Mounting | Desktop, wallmount | Desktop, wallmount, rackmount | Desktop, wallmount, rackmount | Desktop, wallmount, rackmount |
| AC Input | 100-240 VAC, 50/60Hz External power adapater 54V/2.22A | 100-240 VAC, 50/60Hz | 100-240 VAC, 50/60Hz | 100-240 VAC, 50/60Hz |
| Operation Temperature | 0-40℃ | 0-40℃ | 0-50℃ | 0-50℃ |
| Storage Temperature | -20~70℃ | -20~70℃ | -40~70℃ | -40~70℃ |
| Humidity | Operation: 10%-90% RHStorage: 5%-95% RH | | | |
| Dimension (WxDxH) | 240x105x27 mm | 440x257x43 mm | 440x410x44mm | 330x230x44 mm |
| Certifications | FCC, CE (Class A) | FCC, CE, Canada, and C-Tick | FCC, CE, C-Tick | FCC, CE |
| Peak Power (Watts) | 120 | 300 | 480 | 300 |

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