

## Linksys Business Managed Gigabit PoE+ Switches



28-Port Business Managed PoE+ Gigabit Switch (LGS528P)



52-Port Business Managed PoE+ Gigabit Switch (LGS552P)

### Key Features

- 28 or 52 Gigabit Ethernet ports
- Two combo mini-GBIC (SFP) ports
- Two 10-Gigabit uplink Ethernet SFP+ ports (LGS552P)
- Integrated Power over Ethernet Plus (PoE+)
- High performance and reliability
- Energy efficiency
- Advanced security and QoS
- Layer 3 static routing
- IPv6 support
- IP telephony support
- Easy configuration and management
- Limited lifetime warranty

**Add secure, reliable, powerful switching to your growing business network, with state-of-the-art features and performance including Gigabit speed, enhanced security, Power over Ethernet Plus, and advanced traffic management ideal for real-time voice and video applications.**

#### Quality of Service (QoS)

Numerous QoS features ensure that traffic is prioritized properly to deliver the best possible user experience for real-time applications like voice and video along with bandwidth-intensive graphic/video file uploads and downloads. Advanced QoS provides per flow base policer and rate limit to enforce SLA requirement.

#### Power over Ethernet Plus (PoE+)

Linksys Managed Switches support IEEE 802.3at (PoE+) standards and provide up to a 30W power budget per Gigabit Ethernet port while offering IEEE 802.3af (PoE) backward-compatibility. PoE+ capability simplifies and reduces complex technology deployments such as IP telephony, wireless AP, and IP surveillance by allowing you to connect and power network endpoints over a single Ethernet cable at a lower cost.

#### Network Security

Unauthorized access to the network and mission-critical data is a constant concern. Linksys Managed Switches offer to secure networks through port authentication and MAC-based port security, requiring clients to authenticate themselves before any data is passed. Advanced DHCP snooping and IP-MAC-Port binding functions ensure network integrity and help prevent network attacks.

#### Network Expansion

Linksys Managed Switches include features for quickly expanding and growing your network. Multiple high-bandwidth trunks between switches enhance availability and redundancy. Spanning Tree Protocol (STP) and Storm Control features help control planned or inadvertent cable loops, so you can confidently build a mesh of switches and quickly expand your network to support your growing workforce. With additional Gigabit or 10-Gigabit uplink SFP/SFP+ fiber-optic port expansions for servers and data centers, Linksys Managed Switches provide an ideal combination of business scalability and affordability.

## Linksys Business Managed Gigabit PoE+ Switches

### Hardware Specifications



| Model                                 | 28-Port Business Managed Gigabit PoE+ Switch                      | 52-Port Business Managed Gigabit PoE+ Switch                      |
|---------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| Part #                                | LGS528P                                                           | LGS552P                                                           |
| Total System Ports                    | 28GE                                                              | 52GE                                                              |
| Copper GE Ports (RJ45)                | g01–g13, g14–g26                                                  | g01–g25, g26–g50                                                  |
| Combo Ports (RJ45 + SFP)              | 2 combo on ports g27, g28                                         | 2 combo on ports g49, g50                                         |
| 10Gb Ports (SFP+)                     | NA                                                                | XG1, XG2                                                          |
| Status LEDs                           | System (blue/yellow), Link/Act/PoE (green/green), Max PoE (amber) | System (blue/yellow), Link/Act/PoE (green/green), Max PoE (amber) |
| CPU Memory DRAM                       | 128 MB                                                            | 128 MB                                                            |
| Power Input                           | 100–240V<br>50–60 Hz<br>(3.5A max)                                | 100–240V<br>50–60 Hz<br>(8.4A max)                                |
| Power Dedicated to PoE+               | 192W                                                              | 375W                                                              |
| Number of Ports with PoE+ Support     | 24                                                                | 48                                                                |
| Green Power Mode                      | EEE+, Short Reach + Energy Detect                                 | EEE+, Short Reach + Energy Detect                                 |
| System Power Consumption without PoE+ | 110V: 30.73W<br>220V: 28.88W                                      | 110V: 66.63W<br>220V: 66.62W                                      |
| Forwarding Rate                       | 41.67 Mpps                                                        | 104.16 Mpps                                                       |
| Switching Capacity                    | 56 Gbps                                                           | 140 Gbps                                                          |
| MAC Address                           | 16K                                                               | 16K                                                               |
| Jumbo Frame (FE, GE)                  | 9K                                                                | 9K                                                                |
| Fans                                  | Yes (two 8,200 rpm)                                               | Yes (three 8,200 rpm)                                             |
| Enclosure Dimension (W x D x H)       | 440 x 200 x 44.45 mm<br>(17.32 x 7.87 x 1.75 in.)                 | 440 x 350 x 44.45 mm<br>(17.32 x 13.78 x 1.75 in.)                |
| Device Weight                         | 3.12 kg (6.88 lbs.)                                               | 5.32 kg (11.73 lbs.)                                              |
| Operating Temperature                 | 0 to 50°C (32 to 122°F)                                           | 0 to 50°C (32 to 122°F)                                           |
| Operating Humidity                    | 10 to 90% RH                                                      | 10 to 90% RH                                                      |
| Storage Temperature                   | -20 to 70°C (-4 to 158°F)                                         | -20 to 70°C (-4 to 158°F)                                         |
| Storage Humidity                      | 10 to 90% RH (non-condensing)                                     | 10 to 90% RH (non-condensing)                                     |

### Software Specifications

| Model                       | Business Managed Gigabit PoE+ Switches                                                                                                                                                                                                            |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                   | IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3x, IEEE 802.3ad, IEEE 802.3az, IEEE 802.1D, IEEE 802.1w, IEEE802.1Q/p, IEEE802.1X                                                                                     |
| Spanning Tree               | IEEE 802.1d Spanning Tree, IEEE 802.1s Multiple Spanning Tree, IEEE 802.1w Rapid Spanning Tree                                                                                                                                                    |
| Link Aggregation            | IEEE 802.3ad LACP, up to 4 groups with up to 8 ports per group                                                                                                                                                                                    |
| VLAN                        | Port-based and IEEE 802.1Q tag-based VLANs                                                                                                                                                                                                        |
| Number of VLANs             | 1,000 active VLANs (4,096 range)                                                                                                                                                                                                                  |
| Layer 3 Static Routing      | Line rate routing for IPv4 packets with up to 64 static routes                                                                                                                                                                                    |
| Auto Voice VLAN             | VLAN voice traffic is automatically assigned by OUI to a voice-specific VLAN and treated with appropriate levels                                                                                                                                  |
| IGMP Snooping               | IGMP (v1/v2/v3) snooping provides for fast client joins and leaves of multicast streams and limits bandwidth-intensive video traffic to only the requesters; supports 256 multicast groups                                                        |
| Head-of-Line (HOL) Blocking | Head-of-line (HOL) blocking prevention                                                                                                                                                                                                            |
| Port Mirroring              | Traffic on multiple ports can be mirrored to another port for analysis with a network analyzer                                                                                                                                                    |
| Security                    | IEEE 802.1X radius authentication, DHCP snooping, IP-MAC-Port binding, IP source guard, ARP inspection, STP root guard, STP BPDU guard, DHCP relay, port security supports limited dynamic lock and locked MAC address, management access control |
| Storm Control               | Broadcast, unknown-unicast, and multicast                                                                                                                                                                                                         |
| QoS – Priority Levels       | 4 hardware queues                                                                                                                                                                                                                                 |
| QoS – Class of Service      | Port-based, IEEE 802.1p priority-based, IPv4/v6 IP DSCP-based                                                                                                                                                                                     |
| QoS – Scheduling            | Priority queuing and weighted round robin (WRR)                                                                                                                                                                                                   |
| ACL                         | Support up to 512 rules for enhanced security and/or advanced QoS policy: allow, deny, or rate limit based on Layer1 to 4 protocol fields at packet header level with MAC ACL and IP ACL                                                          |
| RMON                        | Embedded remote monitoring (RMON) software agent support for enhanced traffic management, monitoring, and analysis                                                                                                                                |
| Management Interface        | Built-in Web UI for easy browser-based configuration (HTTP/HTTPS)                                                                                                                                                                                 |
| Other Management            | Telnet (menu-driven), DHCP client, system log, configuration unload and backup via HTTP or TFTP, PING, dual images, SNMP                                                                                                                          |
| SNMP                        | SNMP version 1, 2c, and 3                                                                                                                                                                                                                         |

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