



### Small, Yet Powerful Gigabit Smart Switch Packed with Advanced Features

Joining the NETGEAR® ProSAFE® family of Smart Managed Switches with high performance and cost efficiency, this 10-port Gigabit Smart Managed Switch is packed with powerful L2 features capable of enhancing any type of business network. The GS110TP is designed for customers who need a low port density solution with the combination of Gigabit speed and PoE capability. The GS110TP comes with 8 dedicated 10/100/1000 Mbps copper ports to connect to your end devices and two additional Gigabit Fiber ports for uplinks with greater distance. With PoE capability on all 8 copper ports, the GS110TP can automatically detect PoE on the end devices and dynamically manage power assignments and priority. It is capable of delivering up to 15.4W of power per port, up to a maximum total of 46W across all connected PoE devices, and network connectivity concurrently across a single ethernet cable, to power devices such as wireless access points, IP phones and IP cameras, providing flexibility and ease of deployment to your network.

The GS110TP comes with a comprehensive set of features, such as enhanced VLAN and QoS, access control lists (ACL), 802.1x port authentication (MD5), rate limiting and IGMP snooping and many more, to provide businesses with networks that are geared for growth while ensuring performance and reliability. Both an intuitive Web-browser GUI interface and Smart Control Center (Windows PC required), offer simple Smart Managed Switch management, making it a snap to monitor switch performance, configure ports, even set up port trunks, VLANs, and traffic prioritization.

With the fanless design and compact form factor, the GS110TP offers quiet operation and is suitable for deployments in any type of environment, especially the ones which are sensitive to noise.

### PoE Power Management

GS110TP offers useful PoE power management features to help you better control and monitor your power resource. The PoE timer can help turn off the PoE ports during certain times of the day so that your network can be more secure as well as energy efficient. It can also set prioritization on power usage so that specified ports are always guaranteed to get the power first if total power required exceeds the total power budget. The power will be assigned to the PoE ports dynamically depending on the reported power class from each of the individual network devices, allocating the required power (up to 15.4W) per port, starting with the lowest port, until the total power budget of 46W is met, or until there is no longer sufficient remaining PoE power to power the next device/port, based on that connected device's reported PoE power class. The PoE LED on the front panel will light up if the PoE usage is reaching the threshold (46W total PoE power across all connected devices), meaning that insufficient PoE resource is left for powering up additional ports.

### NETGEAR Green

- Up to 70% power savings compared to the non-Green version
- Auto power-down mode saves energy when port is not in use
- Cable length detection reduces power usage when network cable is shorter than 10 meters

### Advanced Quality of Service (QoS)

Priority queuing ensures high-priority traffic gets delivered efficiently, even during congestion from high-traffic bursts. Companies implementing network telephony or video conferencing, for example, need to be able to prioritize such voice and video traffic and other real-time applications over less latency-sensitive traffic to ensure reliability and quality. The ability to prioritize traffic ensures quality of latency-sensitive services and applications despite increasing traffic loads. The GS110TP provides an extensive set of QoS features:

- 802.1p-based prioritization
- Layer 3-based prioritization
- Rate limiting



### Advanced Security

The GS110TP provides more robust security. This includes:

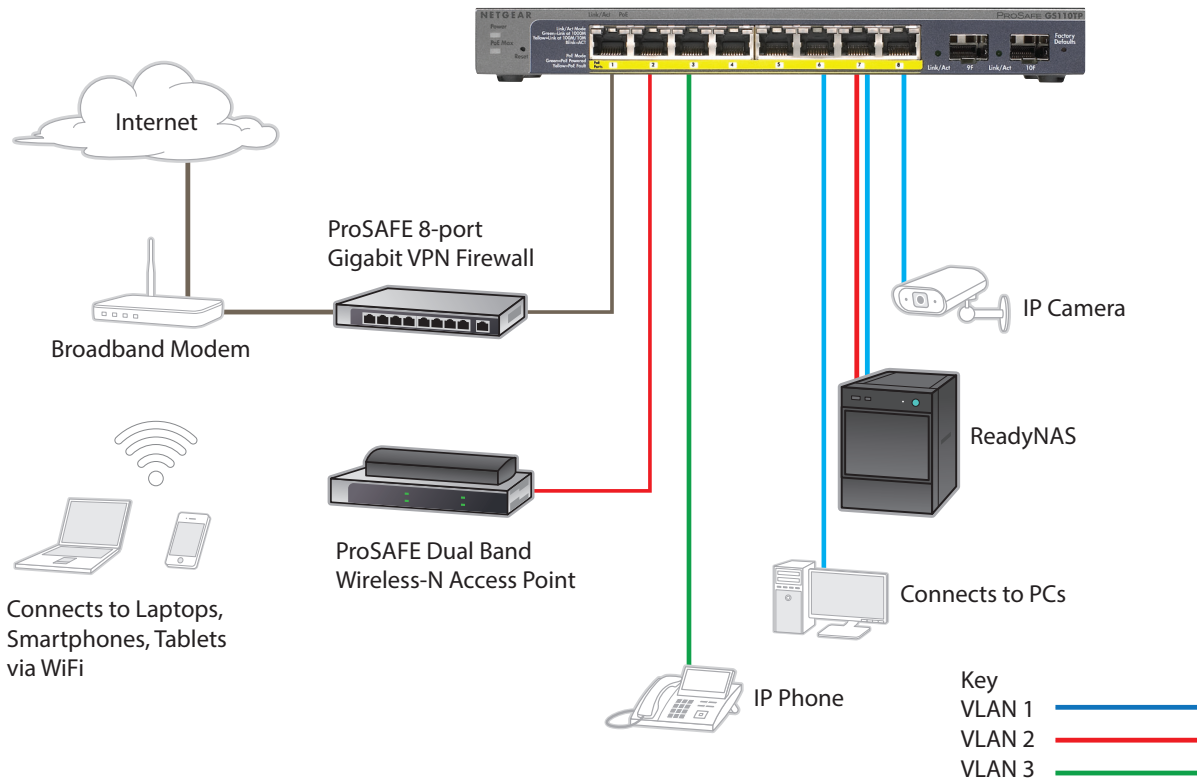
- 802.1x for authentication (MD5)
- ACL filtering to permit or deny traffic based on MAC or IP addresses

### Usability Enhancements

The GS110TP is a powerful switch, yet very ease to manage. It comes with many usability enhancements to help customers fully utilize the features for a more optimized and secure network. For example, the Auto Voice VLAN and Auto Video features will assist customers to easily set up VoIP or IP surveillance networks with a couple of simple steps. You don't need to be an IT professional to set up VoIP or IP surveillance. Security is critical for business networks. However, not everyone knows how to set up a secure network. The ACL Wizards on the GS110TP will guide even naïve users through the setup of access control and address filtering.

### Centralized Management via the New Smart Control Center

With multiple switches in the network, managing configurations on each switch and upgrading firmware becomes a big challenge. The NETGEAR Smart Control Center that comes with the GS110TP and many other Smart Managed switch models can help make this task much easier and simpler. It can perform discovery of the switches on your network, push configuration and firmware updates to multiple selected switches at once, and can even schedule when the tasks should be performed.



### Technical Specifications

#### Network Protocol and Standards Compatibility

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3x full-duplex flow control
- IEEE 802.3af (DTE Power Via MDI)

#### Power Supply

- Power consumption: 59.3W maximum

#### Network Ports

- Eight (8) 10/100/1000Mbps autosensing + 2 Gigabit SFP uplinks

#### Physical Specifications

- Dimensions: (W x D x H): 236 x 101.6 x 27mm (9.3 x 4 x 1.07in)
- Weight: 0.7kg (1.55lb)

#### Performance Specifications

- Forwarding modes: Store-and-forward
- Bandwidth: 20Gbps full duplex
- Network latency: Less than 4  $\mu$ s for 64-byte frames in store-and-forward mode for 1000Mbps to 1000Mbps transmission
- Buffer memory: 512KB embedded memory per unit
- Address database size: 4k media access control (MAC) addresses per system
- Mean time between failures (MTBF): 157,004 hours (~18 years)
- Acoustic noise: 0 dB

#### Electromagnetic Emissions

- CE mark, commercial
- FCC Part 15 Class B
- VCCI Class B
- C-Tick

#### Environmental Specifications

- Operating temperature: 0° to 104° F (0° to 40° C)
- Storage temperature: -4° to 158° F (-20° to 70° C)
- Operating humidity: 90% maximum relative humidity, non-condensing
- Storage humidity: 95% maximum relative humidity, non-condensing
- Operating altitude: 10,000ft (3,000m) maximum
- Storage altitude: 10,000ft (3,000m) maximum

#### Status LEDs

- Per RJ45 port: Link/activity, speed, PoE status
- Per SFP port: Link/speed
- Per device: Power, PoE Max

#### Power Adapter

- 48V, 1.25A external power adapter, localized to country of sale

#### Electromagnetic Immunity

- EN 55024

#### Safety

- CE mark, commercial
- cUL IEC 950/EN 60950
- CB

#### Administrative Switch Management

- IEEE 802.1Q static VLAN (64 groups, static)
- Protected ports
- IEEE 802.1p Class of Service (CoS)
- Port-based QoS
- DSCP-based QoS
- DiffServ
- IEEE 802.3ad Link Aggregation (manual or LACP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1s Multiple Spanning Trees Protocol (MSTP)

- IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
- LLDP-MED
- SNMP v1, v2c, v3
- RFC 1213 MIB II
- RFC 1643 Ethernet Interface MIB
- RFC 1493 Bridge MIB
- RMON group 1, 2, 3, 9
- Auto voice VLAN
- DHCP Filtering
- Auto denial-of-service (DoS) protection
- HTTP and HTTPS
- Ping and traceroute
- Green features: Power saving by cable length (<10 m)
- Power saving when link down
- RFC 2131 DHCP client
- DHCP filtering
- IEEE 802.1x (MD5) with Guest VLAN
- Jumbo frame support
- Port-based security by locked MAC addresses
- MAC and IP-based ACL
- Storm control for broadcast, multicast and unknown unicast packets
- IGMP snooping v1/v2
- Port-based egress rate limiting
- SNMP
- Port mirroring support (many-to-one)
- Web-based configuration
- Configuration backup/restore
- Password access control
- TACACS+ and RADIUS support
- Syslog
- Firmware upgradeable
- PoE (46 Watts of power budget)

### Technical Specifications (continued)

#### NETGEAR Warranty\*

- NETGEAR Lifetime Warranty
- Lifetime 24x7 Online Chat Technical Support
- 90 days (24/7) Live Phone Technical Support
- Lifetime Next Business Day (NBD) Hardware Replacement

#### ProSUPPORT OnCall 24x7, Category 1\*\* Service Packages

- PMB0311 (1 yr.)
- PMB0331 (3 yrs.)
- PMB0351 (5 yrs.)

#### Package Contents

- ProSAFE® 8-port Gigabit PoE Smart Managed Switch with 2 Gigabit Fiber SFP (GS110TP)
- AC adapter
- Rubber footpads
- Wall-mount kit
- Resource CD
- Installation guide

#### Ordering Information

- Australia & Japan: GS110TP-200AJS
- Europe General: GS110TP-200EUS
- North America: GS110TP-200NAS

\* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies—not software or external power supplies; see <http://www.netgear.com/about/warranty/> for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller. This product was tested for quality and its components may be recycled. For indoor use only.

\*\* The NETGEAR OnCall 24x7 contract provides unlimited phone and email technical support for your networking product. For ProSAFE products purchased prior to 06/2014, also includes next-business-day hardware replacement.

\* NETGEAR #1 in Fixed Web(Smart)-Managed Worldwide Market Share according to IHS Infonetics Ethernet Switches Market Share and Forecast, 1Q15 Edition, June 2015. NETGEAR #1 in US Market Share according to NPD data for Unmanaged and Web/Smart Switches, April 2015.

NETGEAR, the NETGEAR logo, ProSUPPORT and ProSAFE are trademarks and/or registered trades of NETGEAR, Inc. and/or its subsidiaries in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice. © 2016 NETGEAR, Inc. All rights reserved.