NETGEAR®

ProSAFE® Fast Ethernet Smart Switches

FS526T, FS726T, FS728TLP, FS728TP and FS750T2

The NETGEAR® Fast Ethernet Smart Switches offers comprehensive L2 feature set and enhanced performance and usability. They are purposely designed for small and medium-sized networks where reliability and performance are key, and operational cost savings and ease of management are must-haves.

There are four products in this series: 26- and 50- port Fast Ethernet Smart Switch, 28-port Fast Ethernet with 12 PoE ports and 28-port high powered with 24 PoE/PoE+ ports. All switches come with dedicated Gigabit SFP ports for either Gigabit and/or fiber uplinks. These ProSAFE Fast Ethernet Smart Switches from NETGEAR are the optimized solutions providing the best value at an affordable SMB price point.

Highlights

Preserve the Efficiency of current Network and support seamless integration with the high-speed Core

- Fast Ethernet holds the best value for the majority of small network traffic need

- All models come with Gigabit copper and Fiber uplink ports, supporting easy connection to Gigabit backbone or servers

- Essential L2 network features ensure consistency in network setup and policy across the network, regardless of network speed.

- IGMP and MLD snooping, providing advanced multicast filtering and efficient use of network bandwidth

Build Eco-friendly network with NETGEAR

- Fanless Design on non-PoE models for quiet operation and non-intruding for any environment

- Variable Speed Fan on PoE models enables the fan to turn on at a certain temperature in order to minimize the noise level

- PoE Timer for scheduling on/off time of your PoE powered devices for better control and optimized use of your devices.

- Energy Efficient Ethernet (IEEE802.3az) for energy saving and OPEX reduction

Network Development Made Easy

- Auto Voice VLAN for easy development of VoIP

- Auto Video for simple deployment of IP Surveillance

- ACL Wizard for a guided tour to set up your network access control

- Smart Control Center, a powerful tool for multi-switch discovery, deployment, monitoring and firmware upgrade

- NMS300, the NETGEAR Network Management System, consolidates the deployment and management of these switches along with all NETGEAR business products.

Small IT, not Big IT

- Easy to manage via web-Based Management GUI or Smart Control Center for multi-switch deployment

- Standard-based technology, ensuring interoperability with any standard-based devices in the existing network

- Worry-free with NETGEAR ProSAFE Lifetime Hardware Warranty

- Assist with customer deployment with 1-year Free 24x7 Advanced Technical Support*

LIFETIME WARRANTY
1 YEAR TECH SUPPORT

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ProSAFE® Fast Ethernet Smart Switches

Hardware at a Glance

Model name	Form-Factor	FRONT			REAR	
		10/100 Base-T RJ45 ports	Gigabit copper or Gigabit Fiber SFP ports	PoE 802.3af PoE+ 802.3at	Power Supply	PoE budget
FS526T	Rackmount	24	2 Gigabit copper (Dedicated)	N/A	Internal	N/A
FS726T	Rackmount	24	1 Gigabit Copper and 1 SFP combo	N/A	Internal	N/A
FS728TLP	Rackmount	24	2 copper and 2 SFP (Dedicated)	12 PoE 802.3af	Internal	100W
FS728TP	Rackmount	24	4 Dedicated Copperand 2 combo	24 PoE 802.3af	Internal	192W
FS750T2	Rackmount	48	2 (Dedicated)	N/A	Internal	

FS526T: 24-port 10/100Base-T Fast Ethernet Smart Switch

• 2 dedicated Gigabit copper ports

FS726T: 24-port 10/100Base-T Fast Ethernet Smart Switch
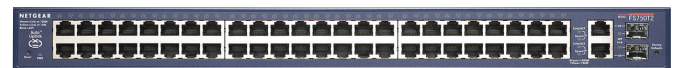
• 1 Gigabit copper and 1 SFP combo

FS728TP: 24-port 10/100base-T Fast Ethernet high powered PoE Smart Switch

• 4 Gigabit copper ports and 2 combo copper/SFP ports
• 24 PoE Ports
• 192W total PoE budget

FS728TLP: 24-port 10/100base-T Fast Ethernet PoE Smart Switch

• 2 dedicated Gigabit copper ports and 2 dedicated copper/SFP ports
• 12 PoE Ports
• 100W total PoE budget

FS750T2: : 48-port 10/100Base-T Fast Ethernet Smart Switch

• 2 dedicated Gigabit copper ports

Software at a Glance

Management	IPv4 / IPv6 Multicast filtering	Auto-Voice and Auto Video	EEE (802.3az) Auto-EEE	VLANs	Convergence
Web GUI, RMON SNMP	IGMP Snooping and querier	Yes (except FS750T2)	Yes (except FS750T2)	Static, Voice Video, MAC, Protocol-based (except FS750T2)	LLDP-MED, RADIUS, 802.1X,PoE timer (except FS750T2)

Performance at a Glance

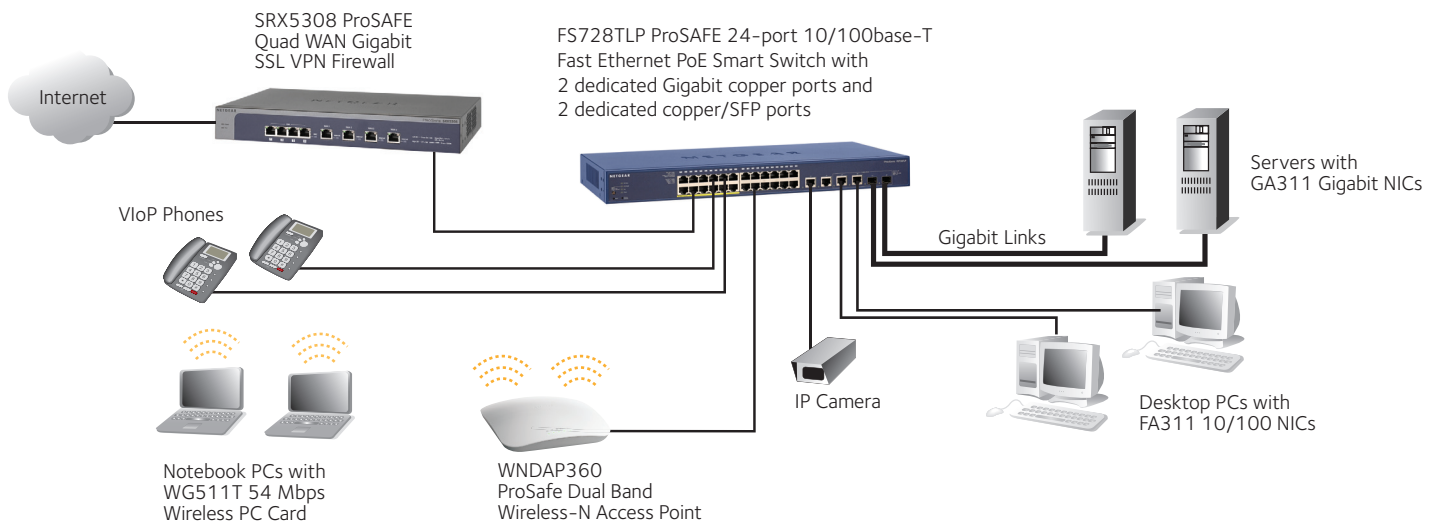| Model Name	Packet buffer	MAC address table	# of VLAN	Multicast Group	Number of Priority Queues
FS526T	4Mb	8K	128	128	8
FS726T	4Mb	8K	128	128	8
FS728TLP	4Mb	8K	128	128	8
FS728TP	1Mb	4K	128	512	8
FS750T2	2Mb	8K	64	N/A	4

Features and Benefits

Features	Benefits
Dedicated SFP Fiber uplinks	• Dedicated SFP ports provides Gigabit copper and fiber uplinks without sacrificing any downlink port. 4 SFP ports provide not only redundant uplinks, but can also build dual redundancy by a trunked uplink with link aggregation and failover, the dual-redundancy, a powerful design for the network virtualization
Comprehensive QoS features: • Port-based or 802.1p-based prioritization • Layer 3-based (DSCP) prioritization • Port-based ingress and egress rate limiting	• Advanced controls for optimized network performance and better delivery of mission-critical traffics such as voice and video
Robust security features: • 802.1x authentication • DHCP Filtering • Port-based security by locked MAC • ACL filtering to permit or deny traffic based on MAC and IP addresses	• Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users
NETGEAR Network Management System (NMS300)	• Extensive visibility, granular control and seamless automation across the network for a range of NETGEAR products
IGMP Snooping and MLD Snooping	• Facilitate fast receiver joins and leaves for multicast streams. Save cost and improve network efficiency by ensuring multicast traffic only reaches designated receivers without the need of an extra Multicast router.
Auto Voice and Auto Video	• Automatic Voice over IP prioritization with Auto-VoIP simplifies most complex multi-vendor IP telephones deployments either based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address; providing the best class of service to VoIP streams (both data and signaling) over other ordinary traffic by classifying traffic, and enabling correct egress queue configuration. When deployed IP phones are LLDP-MED compliant, the Voice VLAN will use LLDP-MED to pass on the VLAN ID, 802.1P priority and DSCP values to the IP phones, accelerating convergent deployments.
DHCP Snooping	• Ensure IP address allocation integrity by allowing only clients with specific IP/MAC addresses to have access to the network.
Dual firmware Images and configuration files	• Dual firmware image and dual configuration file for transparent firmware updates/configuration changes with minimum service interruption
PoE Timer	• Allows IT administrators to increase network security, better utilize network resources and conserve energy by scheduling or remotely controlling on/off of PoE ports.
Protected Ports	• Ensure no exchange of unicast, broadcast, or multicast traffic between the protected ports on the switch, therefore, improve the security of your converged network where your sensitive phone conversation can stay private and your surveillance video clips can be forwarded to their designated storage device without leakage or alteration.

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ProSAFE® Fast Ethernet Smart Switches

Data Sheet

FS526T, FS726T, FS728TLP, FS728TP and FS750T2

Target Application

Converged Network Application

The NETGEAR Fast Ethernet Smart Switch provides the best value for the right-sized networks

- Fast Ethernet for cost-efficiency
- Gigabit uplink for uncompromised bandwidth into network backbone or servers
- Cost-effectively bring intelligence to the edge of the network with traffic management features from the Smart Switches
- Improved usability for easier and smoother deployment of voice and video on the same converged platform
- Lifetime warranty and 1-year free advanced tech support for peace-of-mind

SRX5308 ProSAFE
Quad WAN Gigabit
SSL VPN Firewall

FS728TLP ProSAFE 24-port 10/100base-T
Fast Ethernet PoE Smart Switch with
2 dedicated Gigabit copper ports and
2 dedicated copper/SFP ports

Internet

Servers with
GA311 Gigabit NICs

VIoP Phones

Gigabit Links

IP Camera

Desktop PCs with
FA311 10/100 NICs

Notebook PCs with
WG511T 54 Mbps
Wireless PC Card

WNDAP360
ProSafe Dual Band
Wireless-N Access Point

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ProSAFE® Fast Ethernet Smart Switches

Technical Specifications

PRODUCT SPECIFICATIONS					
Model	FS526Tv2	FS726T	FS728TLP	FS728TP	FS750T2
10/100Mbps ports	24	24	24	24	48
Gigabit ports	2	1	2	4	2
SFP ports		1	2	2	
# of PoE ports			12	24	
Total PoE Power budget (Watts)			100	192	
Max MAC entries	8K	8K	8K	4K	8K
Buffer size	4Mb	4Mb	4Mb	1Mb	2Mb
EEE	Yes	Yes	Yes	Yes	
FAN	0	0	1	1	0
Acoustic Noise Level @25C (dBA)	0	0	30.7	38.1	0
MTBF	334,168 hrs	856,198 hrs	755,725 hrs	237,497 hrs	59,800 hrs
L2 SERVICES – VLANS					
VLAN (# Supported)	128	128	128	128	64
IEEE 802.1Q VLAN Tagging	Yes				
IP based VLANs	Yes				No
MAC based VLANs	Yes				No
Port- based VLAN	No				Yes
Voice VLAN	Based on phones OUI bytes (internal database, or user–maintained) or protocols (SIP, H323 and SCCP)				No
NETWORK SECURITY					
IEEE 802.1x Radius Port Access Authentication	Yes				No
Guest VLAN	Yes				No
RADIUS Accounting	Yes				No
MAC lockdown by the number of MACs	Yes				No
Dynamic learned entries per port	600	600	600	128	
Static entries per port	20	20	20	20	
Network Storm Protection, DoS	Yes				No
Broadcast, Unicast, Multicast DoS Protection	Yes				No
DoS attacks	Yes				No
IP-based ACLs	Yes				No
MAC (Trusted MAC)	Yes				No
L4 ACL	Yes				No
Protected Port	Yes				No

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Technical Specifications

Model	FS526Tv2	FS726T	FS728TLP	FS728TP	FS750T2
L2 SERVICES – AVAILABILITY					
IEEE 802.3ad – LAGs	Yes				No
LACP	Yes ((8 LAGS with max. of 8 members in each LAG))				6 LAGs with max of 8 members in each LAG
Broadcast Storm Control	Yes				No
IEEE 802.3x (Full Duplex and flow control)	Yes				
IEEE 802.1D Spanning Tree Protocol	Yes				
IEEE 802.1w Rapid Spanning Tree	Yes				
IEEE 802.1s Multiple Spanning Tree	No	No	No	Yes	No
BPDU Guard	Yes				No
DoS Prevention	Yes				No
PoE Timer			Yes	Yes	
L2 SERVICES – MULTICAST FILTERING					
IGMP Snooping (v1, v2 and v3)	Yes				No
Max. Multicast Group	128	128	128	512	
IGMP Snooping queries	Yes				No
Block unknown Multicast	Yes				No
L3 SERVICES – DHCP					
DHCP Client	No	No	No	Yes	No
DHCP Client	Yes				No
NETWORK MONITORING AND DISCOVERY SERVICES					
802.1ab LLDP and LLDP–MED	Yes				No
SNMP	V1, V2, V3				v1 and v2
RMON 1,2,3,9	Yes				No
ifTable	Yes				
QUALITY OF SERVICE (QOS)					
Number of Priority Queues	8	8	8	8	4
TCP/UDP–baesd QoS	No	No	No	Yes	No
Rate limiting	Yes	Yes	Yes	Egress only	No
DiffServ QoS	No	No	No	Yes	No
IEEE 802.1p COS	Yes				
Dst MAC and IP	Yes				No
IPv4 DSCP	Yes				No
IPv4 TOS	Yes	Yes	Yes	No	No

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Technical Specifications

Model	FS526Tv2	FS726T	FS728TLP	FS728TP	FS750T2
Strick, or WRED (Weighted Deficit Round Robin)	Both				WRR
Auto-VoIP	Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address				No
Auto Video	Yes				No
Port Mirroring (ingress and egress)	Yes				
IEEE NETWORK PROTOCOLS					
IEEE 802.3 Ethernet	IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX			IEEE 802.1D Spanning Tree (STP)	
IEEE 802.3i 10BASE-T	IEEE 802.3ad Trunking (LACP)			IEEE 802.1s Multiple Spanning Tree (MSTP)	
IEEE 802.3u 100BASE-T	IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)			IEEE 802.1w Rapid Spanning Tree (RSTP)	
IEEE 802.3ab 1000BASE-T	IEEE 802.1p Class of Service			IEEE 802.1X Radius network access control	
IEEE 802.1Q VLAN Tagging	IEEE 802.3 af (PoE)				
IEEE 802.3x full-duplex flow control	Yes				
MANAGEMENT					
Password management	Yes				
Configurable Management VLAN	Yes				No
Admin access control via Radius and TACACS+	No	No	No	Yes	No
Web-based graphical user interface (GUI)	Yes				
Smart Control Center (SCC) for multi-switch management	Yes				
Dual Software (firmware) image	Yes				No
Dual Configuration file	Yes				No
Cable Test utility	Yes				No
File transfers (uploads, downloads)	TFTP / HTTP				No
HTTP Download (firmware)	Yes				No
LEDs					
Per port	Speed, Link, Activity				
Per device	Power, Fan and PoE Power Status (PoE model only)				
PHYSICAL SPECIFICATIONS					
Weight (kg)	1.35	2.5	2.92	3.57	3.2
Dimensions (WxDxH) mm	326x168x43	440x204x43	440x204x43	440x257x43	440x205x43
POWER CONSUMPTION (WHEN ALL PORTS USED, LINE-RATE TRAFFIC AND MAX POE IF APPLICABLE)					
Worst case, all ports used, line-rate traffic, max PoE	12w	24w	124w	256w	19.65w

ProSAFE® Fast Ethernet Smart Switches

Technical Specifications

Model	FS526Tv2	FS726T	FS728TLP	FS728TP	FS750T2
ENVIRONMENTAL SPECIFICATIONS					
Operating					
Operating Temperature	32° to 122°F (0° to 50°C)				
Humidity	90% maximum relative humidity, non–condensing				
Altitude	10,000 ft (3,000 m) maximum				
Storage					
Storage Temperature	– 4° to 158°F (–20° to 70°C)				
Humidity	95% maximum relative humidity, non–condensing				
Altitude	10,000 ft (3,000 m) maximum				
ELECTROMAGNETIC EMISSIONS AND IMMUNITY					
Certifications	CE mark, commercial				
	FCC Part 15 Class A, VCCI Class A				
	Class A EN 55022 (CISPR 22) Class A				
	Class A C–Tick				
	EN 50082–1				
	EN 55024				
	CCC				
SAFETY					
Certifications	CE mark, commercial				
	CSA certified (CSA 22.2 #950)				
	UL listed (UL 1950)/cUL IEC 950/EN 60950				
WARRANTY AND SUPPORT					
ProSAFE Lifetime Warranty†	Included, lifetime				
ProSUPPORT Lifetime 24x7 Advanced Technical Support*	Included, 1 year				

Ordering Information

PACKAGE CONTENT	
All models	ProSAFE® Fast Ethernet Smart Switch
	Power cord
	Rack-mounting kit
	Resource CD with links to online documentation, installation guides, Web-management user manual, Smart Control Center (SCC) software and user guide.
ORDERING INFORMATION	
FS526T-200NAS	for North America and Latin America
FS526T-200EUS	for Europe
FS526T-200AJS	for Asia
FS726T-200PRS	for China
FS728TLP-100NAS	for North America and Latin America
FS728TLP-100EUS	for Europe
FS728TLP-100AJS	for Asia
FS728TLP-100PRS	for China
FS728TP-200NAS	for North America and Latin America
FS728TP-200EUS	for Europe
FS728TP-200AJS	for Asia
FS728TP-200PRS	for China
FS750T2NA	for North America and Latin America
FS750T2EU	for Europe
FS750T2AU	for Asia
OPTIONAL MODULES AND ACCESSORIES	
AFM735	100Base-FX SFP GBIC (Multimode)
AGM731F	1000Base-SX SFP GBIC (Multimode)
AGM732F	1000Base-LX SFP GBIC (Single mode)
SUPPORT PACKAGE	
PRR0331	The NETGEAR XPressHW providing basic hardware support and next-business-day hardware replacement
PMB0331	The NETGEAR OnCall 24x7 contract provides unlimited phone and email technical support for your networking and storage products

* 1-year 24x7 Advanced Technical Support includes Remote Diagnostics performed by our technical experts for prompt resolution of technical issues.

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DS-FastEthernetSmartSwitches-2