

## ProSafe™ Networking Product & Solutions Guide



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## Introduction to ProSafe™

# THE PROFESSIONAL CHOICE FOR BUSINESS NETWORKING SOLUTIONS

ProSafe™ is the brand name of NETGEAR's business class networking products. All ProSafe™ products are designed to offer outstanding value, high performance and exceptional reliability for small-to-medium-sized business networks.

ProSafe™ products are housed in practical form factors with reliable, hard-wearing blue metal cases and are designed to allow for easy expansion or phased upgrades in growing business networks. Awards and recognition of ProSafe™ business class products has been achieved because NETGEAR® concentrates on:

- Adhering to the industry's highest quality standards
- Delivering intelligent, practical features at attractive price points
- Addressing the unique security requirements of business networks

This guide provides an overview of each ProSafe™ product range with helpful network solutions for a variety of office and company environments. For detailed product information and datasheets, please visit www.netgear.co.uk or www.netgear.ie.

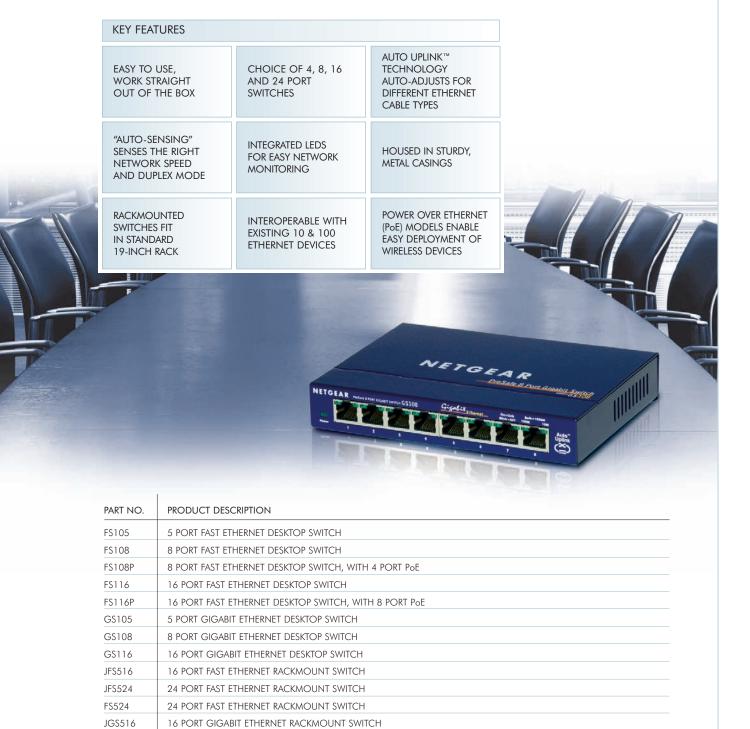


#### ProSafe™ Product Guide



## **Unmanaged Switches**

Small, undemanding office networks operate well using plug and play Unmanaged Switches that offer basic functionality and require little configuration. NETGEAR® offers a choice of Rackmountable or Desktop Unmanaged Switches, which are inexpensive and easy to set up.



2

JGS524

JGS524F

24 PORT GIGABIT ETHERNET RACKMOUNT SWITCH

24 PORT GIGABIT ETHERNET RACKMOUNT SWITCH WITH 2 FIBER PORTS\*

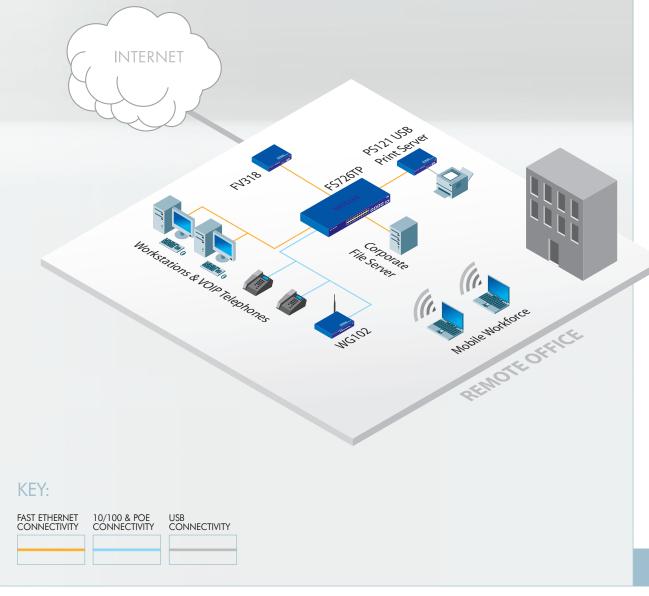
<sup>\*</sup>Utilisation of a GBIC Module Slot eliminates a 10/100/1000 Copper Gigabit Port



## NETWORK SOLUTION FOR A SMALL OFFICE

Being small shouldn't mean compromising network efficiency, NETGEAR® offers professional wired and wireless networking solutions to suit small companies, satellite offices and branch offices.

The networking diagram exampled below utilises a NETGEAR® ProSafe™ Smart Managed Switch (FS726TP) that provides a degree of web-based management to configure ports, prioritise traffic and deliver Gigabit throughput to the company server. The FS726TP also includes built-in Power over Ethernet (PoE) to power the VoIP telephones and a Wireless Access Point (WG102). PoE eliminates the need to position mobile devices close to AC sockets, allowing for far more flexible deployment. In this environment, the WG102 complements the wired network by offering wireless network and Internet access to visitors and field-based staff. The small business Firewall (FVS318) provides Internet access and IPSec VPN encrypted connectivity to head office-held files and applications.





## **Smart Managed Switches**

NETGEAR's ProSafe<sup>™</sup> Fast and Gigabit Smart Managed Switches deliver reliable entry-level network management and capacity without the cost and complexity associated with full Layer 2 and Layer 3 management implementation.

All Smart Managed Switches are managed via an intuitive web browser interface and all models are rackmountable and offer a degree of fiber connectivity. Selective models offer stacking and/or Power-over-Ethernet (PoE) for easy deployment of Wireless Access Points, security cameras or IP telephones.

#### **KEY FEATURES** FAST MODELS STRAIGHTFORWARD CHOICE OF 16, 24 **INCLUDE GIGABIT PORTS** TO SET UP AND MANAGE AND 48 PORTS FOR CONNECTION VIA WEB BROWSER (ALL NON-BLOCKING) TO BACKBONE OR **INTERFACE SERVERS** AUTO UPLINK™ SNMP MANAGEMENT **TECHNOLOGY AUTO-SENSING PORTS** (V1 ON ALL MODELS, **AUTO-SENSE THE RIGHT AUTO-ADJUSTS FOR** 2C AND 3 ON **NETWORK SPEED** DIFFERENT ETHERNET SELECTIVE MODELS) **CABLES** PORT TRUNKING FOR PERFORMANCE ADVANCED SECURITY MONITORING, PORT INCREASED BANDWIDTH, ON STACKING MODELS, CONFIGURATION, VLAN CLASS OF SERVICE **INCLUDING PORT-BASED** FOR TRAFFIC CONTROL (CoS) AND TRAFFIC **ACCESS CONTROL** AND SPANNING TREE **PRIORITISATION**

PART NO.	PRODUCT DESCRIPTION
FS726T	24 PORT FAST ETHERNET SMART MANAGED SWITCH, WITH 2 GIGABIT PORTS & 2 FIBER SLOTS*
FS726TP	24 PORT FAST ETHERNET SMART MANAGED SWITCH, WITH 2 GIGABIT PORTS, 2 FIBER SLOTS* & 12 PORT PoE
FS750T2	48 PORT FAST ETHERNET SMART MANAGED SWITCH, WITH 2 GIGABIT PORTS & 2 FIBER SLOTS*
FS728TS	24 PORT FAST ETHERNET SMART MANAGED SWITCH, WITH 4 GIGABIT PORTS & 2 FIBER SLOTS*
FS752TS	48 PORT FAST ETHERNET SMART MANAGED SWITCH, WITH 4 GIGABIT PORTS & 2 FIBER SLOTS*
FS752TPS	48 PORT FAST ETHERNET SMART MANAGED SWITCH, WITH 4 GIGABIT PORTS, 2 FIBER SLOTS* & 24 PORT PoE
GS716T	16 PORT GIGABIT ETHERNET SMART MANAGED SWITCH & 2 FIBER SLOTS*
GS724T	24 PORT GIGABIT ETHERNET SMART MANAGED SWITCH & 2 FIBER SLOTS*
GS748T	48 PORT GIGABIT ETHERNET SMART MANAGED SWITCH & 4 FIBER SLOTS*
GS724TS	24 PORT GIGABIT ETHERNET SMART MANAGED, STACKABLE SWITCH & 4 FIBER SLOTS* (COMING SOON)
GS748TS	48 PORT GIGABIT ETHERNET SMART MANAGED, STACKABLE SWITCH & 4 FIBER SLOTS* (COMING SOON)

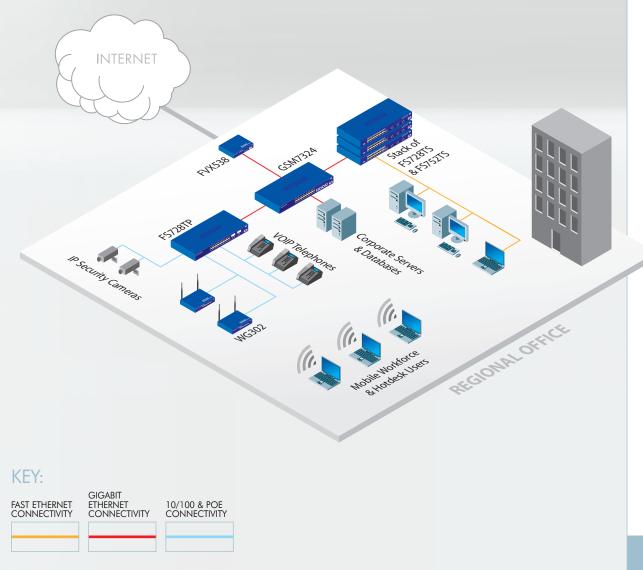
<sup>\*</sup>Utilisation of a GBIC Module Slot eliminates a 10/100/1000 Copper Gigabit Port



## NETWORK SOLUTION FOR A REGIONAL OFFICE

Medium enterprises such as regional offices will probably require increased networking management and throughput to support many users, plus multiple applications and servers. This scenario depicts a core Layer 3 Managed, Gigabit Rackmount Switch (GSM7324) providing Gigabit connectivity to company servers and routing between VLANs (Virtual Private Local Area Networks). The L3 core switch also delivers Gigabit throughput to Stackable, Smart Managed Switches (FS728TS & FS752TS), providing 10/100 connectivity directly to PCs, laptops and a print server.

Wireless Access Points (WG302s) and surveillance cameras are connected and powered by a Smart Switch (FS728TP) with built-in PoE for easy, flexible deployment. The WG302s complement the wired network by providing wireless connectivity to hot-desking staff and visitors. The dual WAN load balancing Firewall (FVX538) with dial backup ensures a constant Internet connection to the outside world and head office resources via site-to-site IPSec VPN (Virtual Private Network).





## Layer 2 Managed Switches

NETGEAR's ProSafe™ Layer 2 Managed Switches are ideal for small-to-medium-sized organisations needing reliable, high performance switching.

Full Layer 2 management capabilities, non-blocking and wire-speed performance provides a secure network foundation optimised for data, wireless and IP communications. Delivering best-in-class networking that is designed to meet the needs of growing networks, these switches are simple to set up and use, and can be managed via a web-browser, command line interface or telnet.

#### **KEY FEATURES** AUTO UPLINK™ CHOICE OF 12, 24 **TECHNOLOGY AUTO-SENSING PORTS** OR 48 PORTS **AUTO- ADJUSTS AUTO-SENSE THE RIGHT** FOR DIFFERENT **NETWORK SPEED** (ALL NON-BLOCKING) **ETHERNET CABLES** MANAGE VIA **PERFORMANCE** WEB-BROWSER, SNMP MANAGEMENT MONITORING, PORT COMMAND LINE CONFIGURATION, VLAN (V1, 2c AND 3) INTERFACE (CLI) FOR TRAFFIC CONTROL **OR TELNET** BASIC, MULTICAST PORT TRUNKING FOR ADVANCED REMOTE AND RAPID SPANNING **INCREASED BANDWIDTH NETWORK MANAGEMENT** TREE TO BLOCK AND TRAFFIC (RMON GROUPS **PRIORITISATION** 1, 2, 3 & 9) REDUNDANT PATHS PART NO. PRODUCT DESCRIPTION FSM726 24 PORT FAST ETHERNET LAYER 2 MANAGED SWITCH, WITH 2 GIGABIT PORTS & 2 FIBER SLOTS\* GSM7212 12 PORT GIGABIT ETHERNET LAYER 2 MANAGED SWITCH, WITH 12 FIBER SLOTS\* GSM7224 24 PORT GIGABIT ETHERNET LAYER 2 MANAGED SWITCH, WITH 4 FIBER SLOTS\* 48 PORT GIGABIT ETHERNET LAYER 2 MANAGED SWITCH, WITH 4 FIBER SLOTS\* GSM7248



## Layer 3 Managed Switches

NETGEAR's ProSafe™ Fast and Gigabit Layer 3 Managed Switches deliver maximum throughput and flexibility where you need it; to high-speed, high-density workgroups at the edge of the network, in the backbone of growing networks or for bandwidth-thirsty file and application servers.

The full wire-speed, non-blocking design with Layer 3 switching functionality ensures reliable routing between VLANs and network segmentation. Robust security, Quality of Service, and management features deliver intelligent-edge connectivity for essential business applications. Power-over-Ethernet (PoE) options are available for high density VoIP applications or easy deployment of Wireless Access Points.

#### **KEY FEATURES** AUTO UPLINK™ CHOICE OF 12, 24 **TECHNOLOGY AUTO-SENSING PORTS** OR 48 PORTS AUTO-ADJUSTS FOR AUTO-SENSE THE RIGHT (ALL NON-BLOCKING) NETWORK SPEED DIFFERENT ETHERNET **CABLES** MANAGE VIA **RELIABLE ROUTING** BASIC, MULTICAST AND WEB-BROWSER, **BETWEEN VLANS** RAPID SPANNING TREE COMMAND LINE AND NETWORK TO BLOCK REDUNDANT INTERFACE (CLI) SEGMENTATION **PATHS OR TELNET PORT TRUNKING** ADVANCED SECURITY, **ADVANCED** FOR INCREASED INCLUDING; 802.1X, REMOTE NETWORK SSL/SSH, HTTPS **BANDWIDTH** MANAGEMENT (RMON AND TRAFFIC AND ACCESS GROUPS 1, 2, 3 & 9) CONTROL LISTS **PRIORITISATION** PART NO. PRODUCT DESCRIPTION FSM7326P 24 PORT FAST ETHERNET LAYER 3 MANAGED SWITCH, WITH 2 GIGABIT PORTS, 2 FIBER SLOTS\* & 24 PORT PoE 24 PORT FAST ETHERNET LAYER 3 MANAGED, STACKABLE SWITCH, WITH 4 GIGABIT PORTS & 4 FIBER SLOTS\* FSM7328S FSM7352S 48 PORT FAST ETHERNET LAYER 3 MANAGED, STACKABLE SWITCH, WITH 4 GIGABIT PORTS & 4 FIBER SLOTS\* 48 PORT FAST ETHERNET LAYER 3 MANAGED, STACKABLE SWITCH, WITH 4 GIGABIT PORTS, FSM7352PS 4 FIBER SLOTS\* & 48 PORT PoE GSM7312 12 PORT GIGABIT ETHERNET LAYER 3 MANAGED SWITCH, WITH 12 FIBER SLOTS\* GSM7324 24 PORT GIGABIT ETHERNET LAYER 3 MANAGED SWITCH, WITH 4 FIBER SLOTS\* GSM7328S 24 PORT GIGABIT ETHERNET LAYER 3 MANAGED, STACKABLE SWITCH WITH 4 FIBER SLOTS\* & 4 10-GIG FIBER/24 GIG STACKING MODULE BAYS GSM7352S 24 PORT GIGABIT ETHERNET LAYER 3 MANAGED, STACKABLE SWITCH WITH 8 FIBER SLOTS\* & 4 10-GIG FIBER/24 GIG STACKING MODULE BAYS

\* Utilisation of a GBIC Module Slot eliminates a 10/100/1000 Copper Gigabit Port



## Modules

NETGEAR's ProSafe<sup>™</sup> Switch Modules enable businesses to add high-speed, long-distance fiber connectivity to servers or between two LANs (Local Area Networks).

A choice of 1000 and 10 Gig-based industry standard Small Form Factor Pluggable (SFP) GBIC transceiver modules are designed to compliment NETGEAR's ProSafe™ Managed Switch range and are compatible with third-party products. Simplified installation means they are ideal for both end-users and technicians. In addition, stacking kits (AX742) are available for use with NETGEAR's ProSafe™ Layer 3 Managed, Stackable Switches.

#### **KEY FEATURES**

MODULES ADD FIBER OPTIC CONNECTIVITY TO NETGEAR® PROSAFE™MANAGED SWITCHES APPROPRIATE
MODULES MEET SFP
GBIC STANDARD FOR
USE WITH ANY SFP
GBIC-COMPLIANT SLOT

1000 GIG BASE SFP MODULES FOR USE WITH SMART, L2 AND L3 MANAGED SWITCHES\*

10 GIG BASE SFP MODULES FOR USE WITH GSM7328S & GSM7352S

MODULES DRIVE GIGABIT FIBER CONNECTIVITY OVER LONG DISTANCES MODULES ARE COMPATIBLE WITH THIRD-PARTY PRODUCTS

SIMPLE INSTALLATION FOR NOVICES OR TECHNICIANS SUPPORT FOR 50 $\mu$ M
AND 62.5 $\mu$ M
MULTIMODE FIBER
CABLES OR 9 $\mu$ M
SINGLE MODE CABLING

STACKING KITS PROVIDE 24GBPS STACKING CONNECTIVITY TO L3 MGD, STACKABLE SWITCHES



FART NO.	FRODUCT DESCRIPTION
AGM721F	1000 BASE-SX GBIC MODULE (FOR USE WITH FSM726)
AGM722F	1000 BASE-LX GBIC MODULE (FOR USE WITH FSM726)
AGM731F	1000 BASE-SX SFP FIBER GBIC MODULE (SUPPORTS BOTH 50 $\mu$ M and 62.5 $\mu$ M multimode fiber cables)
AGM732F	1000 BASE-LX SFP FIBER GBIC MODULE (WORKS WITH 9µM SINGLE MODE CABLING)
AGM733	1000 BASE-ZX SFP FIBER GBIC MODULE (WORKS WITH 9µM SINGLE MODE CABLING)
AXM751	10G BASE-SR XFP FIBER OPTIC MODULE - SHORT REACH
AXM752	10G BASE-LR XFP OPTIC MODULES - LONG REACH
AX741	10G ETHERNET XFP ADAPTER (FOR USE WITH GSM7328S/52S)
AX742	24GBPS STACKING KIT (FOR USE WITH GSM7328S/52S)

<sup>\*</sup> Except FSM726 Layer 2 Managed Switch



FVG318

DGFV338

VPN01L

VPN05L

## **VPN Firewalls**

NETGEAR's ProSafe<sup>™</sup> VPN (Virtual Private Networks) Firewalls ensure maximum privacy and security with the high-level encryption your business demands.

VPN Firewalls include built-in routers for secure connection to the Internet. Choose between a wide range of wired and wireless VPN Firewalls, equipped with 2 to 200 VPN tunnel support capability. NETGEAR® Firewalls are easy to configure and provide reliable, secure Internet connectivity.

Combined with NETGEAR's VPN client software, NETGEAR® Firewalls deliver a total solution for secure data transmission.

NETGEAR's security products are VPNC-tested and certified to ensure interoperability with many other popular security products.

#### **KEY FEATURES DENIAL OF SERVICE TO** STATEFUL PACKET PREVENT INTRUDERS INSPECTION TO VIEW **CONTENT FILTERING TO** OR HACKERS FROM DATA PACKETS ENTERING FILTER OUT UNWANTED ACCESSING THE THE NETWORK TO INFORMATION **NETWORK** PREVENT VIRUSES CREATE SECURE **BUILT-IN 4 OR 8 PORT** 168-BIT 3DES IPSEC SWITCH FOR ETHERNET & 56-BIT DES VPNs BETWEEN **ENCRYPTION PROTECT** CONNECTIVITY TO **HEAD OFFICE AND** REMOTE LOCATIONS OTHER NETWORK DATA COMMUNICATION AND/OR USERS **DEVICES** OVER VPN DUAL WAN WIRELESS FIREWALLS **EMPLOY HIGHEST** SNMP MANAGEMENT **CONNECTIONS FOR** LEVEL OF WIRELESS (FVX538, FVS338 FAILOVER AND SECURITY WITH WPA & FVS124G) LOAD BALANCING **ENCRYPTION** (FVX538 & FVS124G) NETGEAR PRODUCT DESCRIPTION PART NO. FVS114 FIREWALL WITH 8 VPN IPSEC TUNNELS AND 4 PORT FAST SWITCH FVS318 FIREWALL WITH 8 VPN IPSEC TUNNELS AND 8 PORT FAST SWITCH FVS124G FIREWALL WITH 25 VPN IPSEC TUNNELS, 4 PORT GIGABIT SWITCH AND DUAL WAN PORTS FVS338 FIREWALL WITH 50 VPN IPSEC TUNNELS, 8 PORT FAST SWITCH AND DIAL BACK-UP FIREWALL WITH 200 VPN IPSEC TUNNELS, 8 PORT FAST SWITCH, FXV538 DUAL WAN LOAD BALANCING AND DIAL BACK-UP FWG114P 802.11G WIRELESS FIREWALL WITH 2 VPN IPSEC TUNNELS, 4 PORT FAST SWITCH AND USB PRINT SERVER

WIRELESS ADSL 2+ MODEM FIREWALL WITH 50 VPN IPSEC TUNNELS AND 8 PORT FAST SWITCH - COMING SOON

802.11G WIRELESS FIREWALL WITH 8 VPN IPSEC TUNNELS AND 8 PORT FAST SWITCH

VPN CLIENT SOFTWARE - SINGLE LICENSE

VPN CLIENT SOFTWARE - 5 USER LICENSE

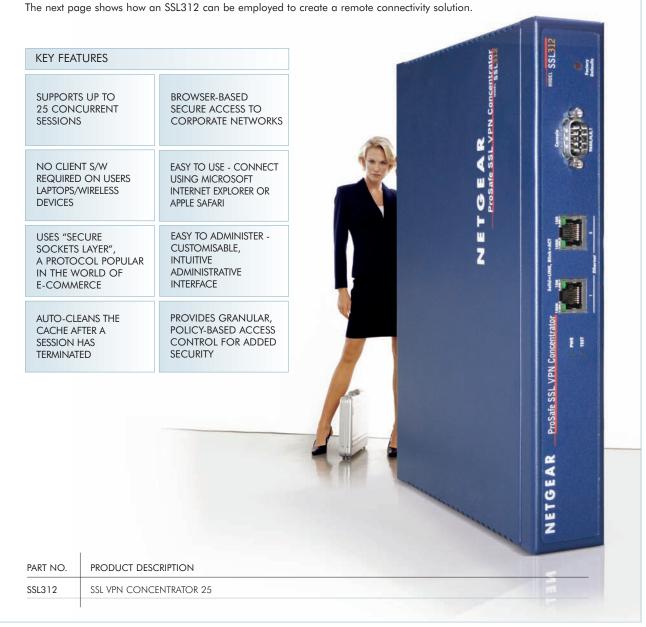


### SSL VPN

# Remote access to your corporate data from any PC, anytime, anywhere

With a growing number of mobile users in any organisation, providing remote access to corporate resources is becoming increasingly complicated and costly. The SSL312 is an easy-to-use browser-based, remote-access SSL VPN solution for small-to-medium-sized businesses with up to 100 users.

The SSL312 utilises SSL (Secure Sockets Layer), a mature, well-known and popular protocol in the world of secure e-commerce to provide easy access to corporate resources and files for mobile and remote users. Unlike traditional VPN solutions, the SSL312 requires no software to be loaded onto the client devices.

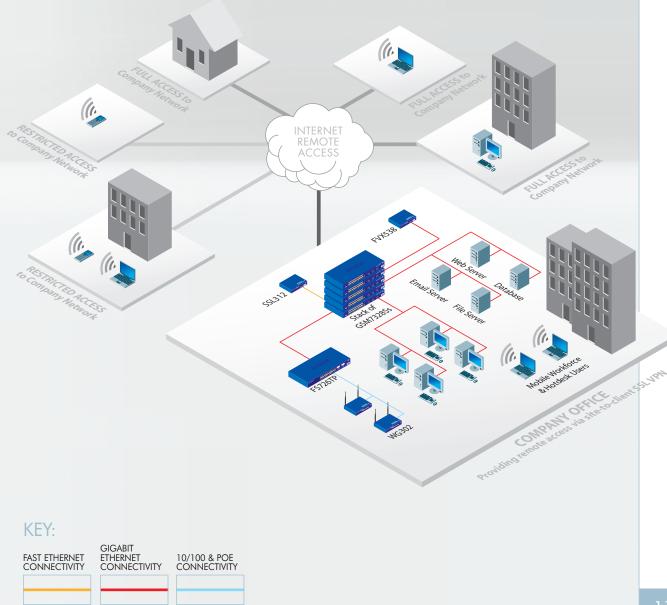




## NETWORK SOLUTION FOR REMOTE CONNECTIVITY

### Secure, Web Browser Access to Company Network & Resources

This network diagram shows an SSL312 connected to the main internal company network to provide remote users with full or restricted secure, web browser-based access to the company's applications, files and databases. Restricted access is provided to remote workers using PDAs or working from a wireless hot spot. In this scenario, full access to all company resources is granted to home workers, field staff using laptops and users at customer or partner sites.





## NETWORK SOLUTION FOR A HEAD OFFICE

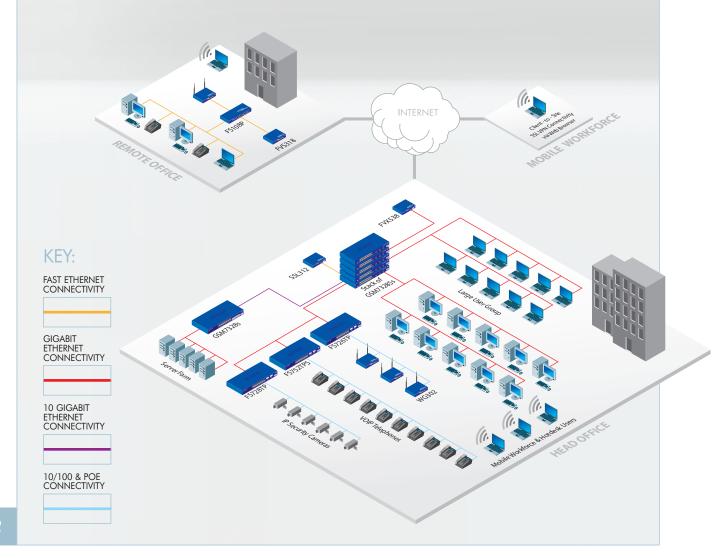
## With Connectivity to Remote Office & Mobile Staff

To effectively manage large, complex and bandwidth-demanding "head office" environments, the diagram below depicts Layer 3 Managed Stackable Switches (GSM7328Ss) at the core.

These Layer 3 Managed Stackable Switches support VLANs and Quality of Service, enabling this organisation - for example - to prioritise voice traffic or specific users. A 10 Gig Fiber uplink is employed to provide 10 x Gigabit throughput between the stack of GSM7328S Switches and a single GSM7328S to provide incredibly fast throughput to the company's server farm.

Also connected to the stack of GSM7328Ss are NETGEAR's Smart Switches with built-in PoE to power multiple Wireless Access Points, VoIP telephones and IP security cameras. PoE facilitates easier, flexible deployment, avoiding the constraint of only placing mobile devices near to AC sockets. Multiple Wireless Access Points (WG302s) complement the wired network by providing wireless coverage across the office for visitors.

The Firewall (FVX538) supports IPSec VPN, to provide regional, branch and remote offices with secure, private access to resources held on servers at the head office. An SSL VPN device (SSL312) complements the site-to-site IPSec VPN, by providing mobile users with secure, browser-based access to head office resources without the need to load client software onto every remote laptop (see Separate SSL VPN Solution Guide on Page 11).

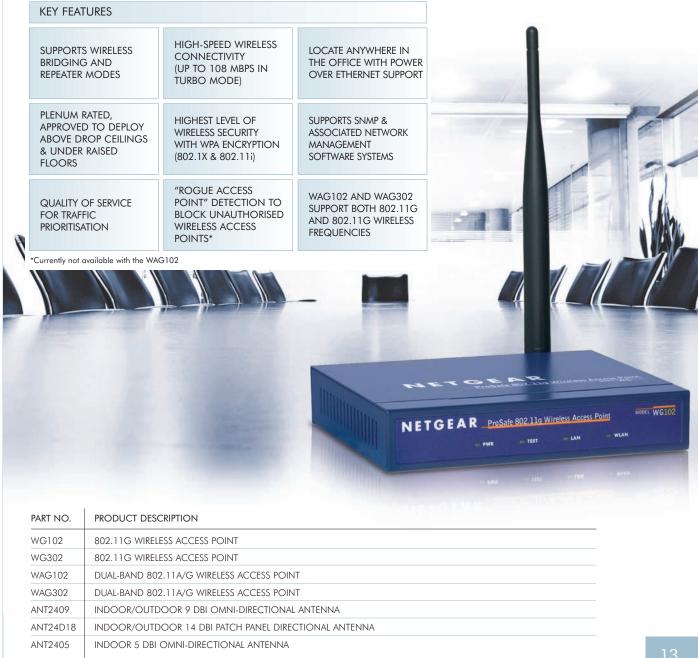




### Wireless Access Points & Antennas

NETGEAR's Wireless Access Points are ideal for extending an existing Ethernet network to areas that cabling cannot reach or to provide easier connectivity for visitors, mobile workforce or hot desking staff. Wireless Access Points and External Antennas can be used in conjunction to boost wireless signals across a building or campus to ensure network coverage for all employees.

Deployment of Wireless Access Points is easier when they are used in conjunction with Power-over-Ethernet (PoE), available with selective NETGEAR® switches. PoE transmits electrical power to Wireless Access Points (and other mobile devices) over Ethernet cables, so that they can be positioned virtually anywhere.



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