NETGEAR® ProSafe®

10 Gigabit Aggregation and Next-Gen Edge
96-Port Managed Switch Starter Kits

XSM96PSKT
XSM96GSKT
(See details page 2)

NETGEAR ProSafe
LIFETIME
WARRANTY*

Lifetime Tech Support

NBD* 3-year on-site service

Promotion valid until 30th June 2012

Managed infrastructure

Mid-sized businesses, hospitals and schools have the same bandwidth needs as large enterprises. With the wide adoption of virtualization, audio-video-data convergence, and rapid growth of bandwidth intensive applications, there is a continued demand for faster network connectivity. The widespread deployment of Gigabit to the desktop is becoming a bottleneck for any network access layer.

10 Gigabit Ethernet represents the solution to many of the scaling challenges presented by the edge of today's networks. Successful 10 Gigabit Ethernet deployments require intelligent switching solutions with integrated security, high availability, delivery optimization, enhanced manageability, and support for new applications.

NETGEAR ProSafe® 10 Gigabit Aggregation and Next-Gen Edge Managed switches are ideal for all organizations considering reliable, affordable and simple 10 Gigabit Ethernet backbone architectures.

10 Gigabit Virtual Chassis stacking technology and 10 Gigabit Distributed link aggregation present an opportunity to scale both the entire network's performance and its redundancy. Get started today with these special starter kit promotions. But hurry as quantities are limited!

30% INSTANT SAVINGS

www.netgear.com

NETGEAR®
Connect with Innovation™

XSM96PSKT
96-Port PoE L2+ Managed Switch Starter Kit

Special Ordering SKU for the bundle:

XSM96PSKT-100NAS (Americas)

XSM96PSKT-100EUS (Europe)

XSM96PSKT-100AUS (Asia Pacific)

Components	Description	Quantity
XSM7224S	NETGEAR ProSafe L2+ 10 Gigabit Managed Switch 24p SFP+ with stacking	1
GSM7252PS	NETGEAR ProSafe L2+ Gigabit Managed Switch 48p PoE with 2 built-in SFP+ and 10GE stacking	2
AX742	NETGEAR ProSafe 24G Stacking Kit for GSM7xxxS series (2 modules, 1 cable)	2
AXC763	NETGEAR ProSafe 3m Direct Attach SFP+ to SFP+ Cable	2
AXM763	NETGEAR ProSafe 10GBase-LRM SFP+ LC Optics (long reach multimode, 220m OM1 62.5μm/125μm or OM3 50/125μm)	2

XSM96GSKT
96-Port L3 Managed Switch Starter Kit

Special Ordering SKU for the bundle:

XSM96GSKT-100NAS (Americas)

XSM96GSKT-100EUS (Europe)

XSM96GSKT-100AUS (Asia Pacific)

Components	Description	Quantity
XSM7224S	NETGEAR ProSafe L2+ 10 Gigabit Managed Switch 24p SFP+ with stacking	1
GSM7352S	NETGEAR ProSafe L3 Gigabit Managed Switch 48p with 2 built-in SFP+ and 10GE stacking	2
AX742	NETGEAR ProSafe 24G Stacking Kit for GSM7xxxS series (2 modules, 1 cable)	2
AXC763	NETGEAR ProSafe 3m Direct Attach SFP+ to SFP+ Cable	2
AXM763	NETGEAR ProSafe 10GBase-LRM SFP+ LC Optics (long reach multimode, 220m OM1 62.5μm/125μm or OM3 50/125μm)	2

A Complete and Secure Solution

NETGEAR ProSafe® 10 Gigabit Aggregation and Next-Gen Edge solution offers a secure, future-proof networking infrastructure. End-users, critical services, servers and storage seamlessly connect across highly flexible core, distribution and access layers. NETGEAR Managed Infrastructure makes the most of state-of-the-art technologies including Virtual Chassis Stacking and Distributed Link Aggregations that work in concert to create a reliable, simple and affordable Campus LAN solution.
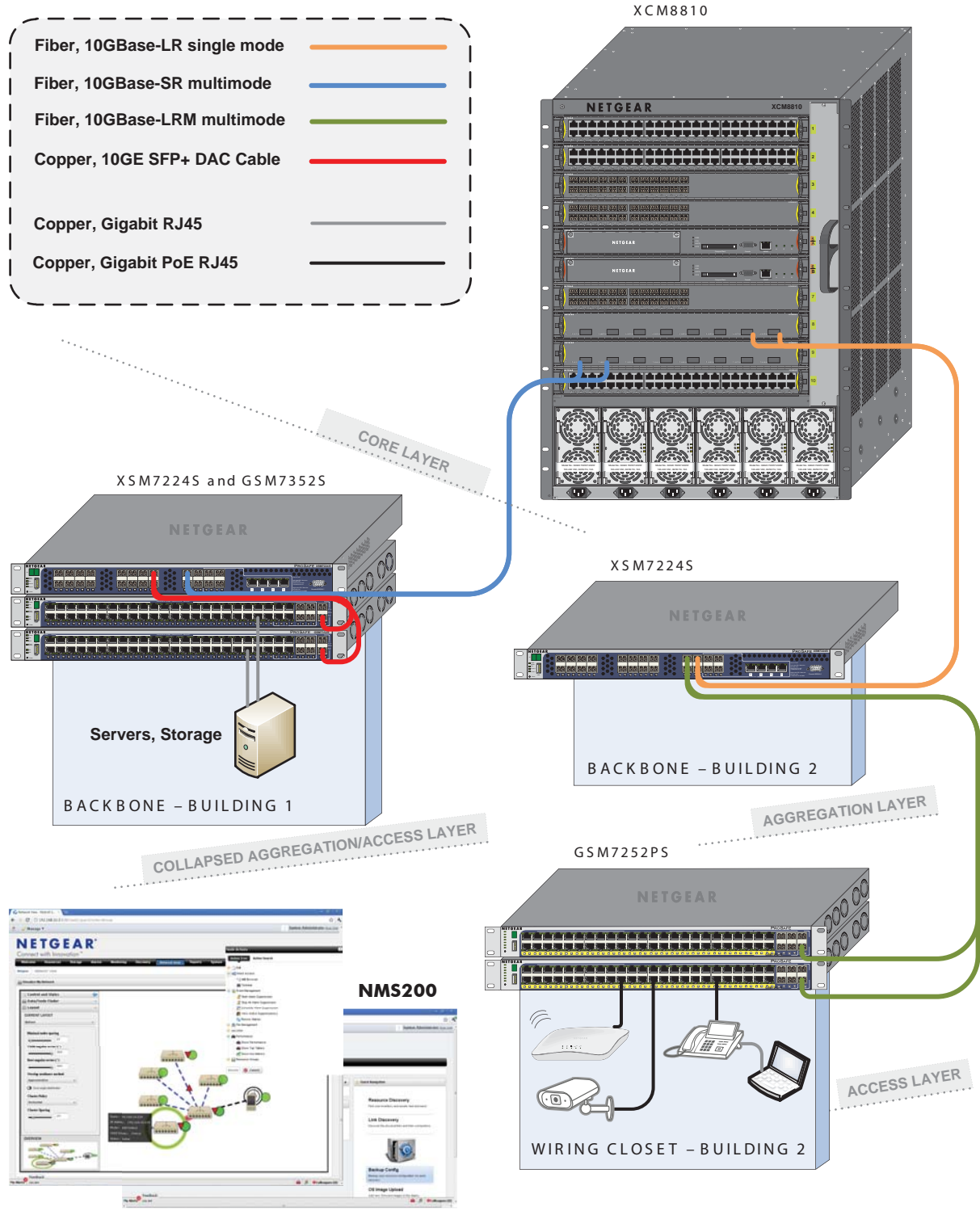
A single-pane-of-glass management platform – NMS200 – increases overall operational efficiency.

Building 1: XSM96GSKT

For a collapsed Aggregation/Edge application, the XSM96GSKT starter kit comes with 24 Gigabit stacking kits for the two GSM7352S: the virtual chassis enables single, common fabric manageability. Starter kit also comes with DAC SFP+ cables for increased network resilience: the XSM7224S can further boost performance by bundling (trunking) several parallel 10 Gigabit links and connecting the virtual GSM chassis with LACP load balancing and automatic failover.

Building 2: XSM96PSKT

For a distributed Edge application, the XSM96PSKT starter kit comes with multimode SFP+ optics for the two GSM7252PS: a resilient 10 Gigabit distribution to a virtual chassis at the edge increases flexibility and reduces operational complexity.

Fiber, 10GBase-LR single mode

Fiber, 10GBase-SR multimode

Fiber, 10GBase-LRM multimode

Copper, 10GE SFP+ DAC Cable

Copper, Gigabit RJ45

Copper, Gigabit PoE RJ45

XCM8810

NETGEAR   XCM8810

CORE LAYER

XSM7224S and GSM7352S

NETGEAR

XSM7224S

NETGEAR

Servers, Storage

BACKBONE – BUILDING 2

BACKBONE – BUILDING 1

AGGREGATION LAYER

COLLAPSED AGGREGATION/ACCESS LAYER

GSM7252PS

NETGEAR

NMS200

NETGEAR
Connect with Innovation ™

NETGEAR®

ACCESS LAYER

WIRING CLOSET – BUILDING 2

Virtual Chassis Stacking Technology

Technology Overview

NETGEAR Virtual Chassis stacking technology provides resilient network architecture: up to 8 independent switches (GSM7xxxS series) or up to 4 independent switches (XSM7xxxS series) are consolidated around a single management IP address, which simplifies network operations.

The stack acts as a single switch in the network:

- One CLI and one web interface managing the virtual chassis
- The other switches in the network also "see" the stack as a virtual chassis
- The virtual chassis needs only one configuration file, similar to a typical modular chassis switch

NETGEAR Virtual Chassis stacking technology is flexible:

- GSM7xxxS series switches intelligently join the Virtual Chassis architecture with a 48-Gbps switching stack interconnect, when using local AX742 stacking kits
- 10 Gigabit fiber is also available for distant GSM7xxxS – local and distant switches can join the same stack
- XSM7xxxS series switches are even more flexible: all ports are Stack capable – you can use up to 4 ports per stack interconnect to create a 80Gbps Stacking backplane

NETGEAR Virtual Chassis stacking technology delivers a bidirectional, highly resilient topology:

- Higher throughput capacity with lower latency and jitter for VoIP and Multicast traffic
- Each switch in the stack understands the shortest path to forward traffic, bi-directionally both up and down
- Dual ring architecture ensures that if a switch fails within the stack, all others switches can still communicate with one another

Virtual Chassis Functionality

Within the stack, a switch is elected as the "Master": the master is responsible for the control plane and forwarding/routing tables for the stack members. Automatic Unit Replacement guarantees stack members' smooth replacement without manual reconfiguration. Stack master redundancy is also automatic. As for a Chassis switch, VLAN tagging, port mirroring and link aggregation are available from every port to every port across the stack.

Distributed Link Aggregation

Distributed trunking across the stack allows redundant uplinks without creating loops: LACP automatic load-balancing and port failover ensure greater bandwidth between network layers and maximize redundancy. Active-active connections radically improve performance for servers at the same time. NETGEAR Virtual Chassis stacking technology delivers resiliency, simplicity and better performance throughout the entire network.
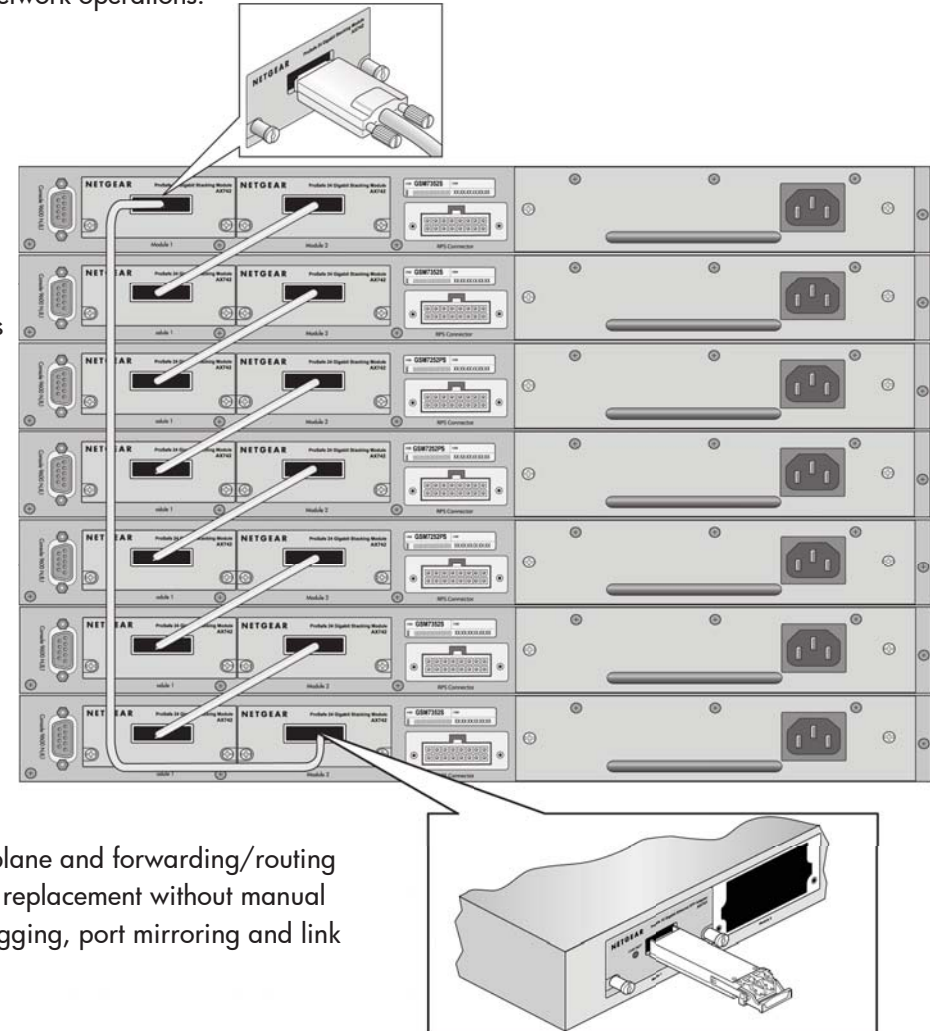
Starter Kits: possible options and upgrades

10 Gigabit Aggregation

|	
XSM7224S	NETGEAR ProSafe L2+ 10 Gigabit Managed Switch - 24p SFP+ with stacking
XSM7224L	NETGEAR ProSafe Layer 3 License Upgrade for XSM7224S

Next-Gen Edge, Gigabit

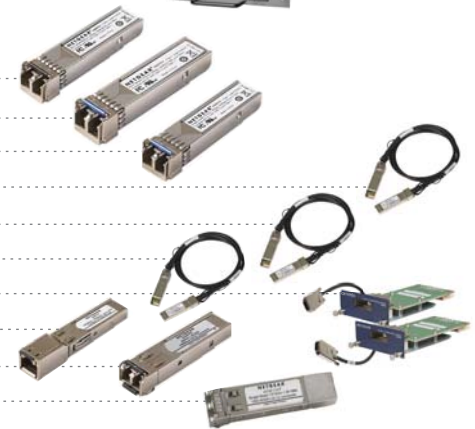|	
GSM7228PS	NETGEAR ProSafe L2+ Gigabit Managed Switch - 24p PoE with 2 built-in SFP+ and 10GE stacking
GSM7228PL	NETGEAR ProSafe Layer 3 License Upgrade for GSM7228PS
GSM7252PS	NETGEAR ProSafe L2+ Gigabit Managed Switch - 48p PoE with 2 built-in SFP+ and 10GE stacking
GSM7252PL	NETGEAR ProSafe Layer 3 License Upgrade for GSM7252PS
GSM7328S	NETGEAR ProSafe L3 Gigabit Managed Switch - 24p with 2 built-in SFP+ and 10GE stacking
GSM7352S	NETGEAR ProSafe L3 Gigabit Managed Switch - 48p with 2 built-in SFP+ and 10GE stacking
GSM7328FS	NETGEAR ProSafe L3 Gigabit Managed Switch - 24p Fiber with 10GE stacking

Modules – Redundancy and Availability

APS300W	NETGEAR ProSafe Additional Redundant Power Supply for XSM7224S
AFT200	NETGEAR ProSafe Replacement Fan Tray for XSM7224S
RPS5412	Optimal Power External Redundant Power Supply for GSM72 and GSM73 Series
APS525W	NETGEAR ProSafe Extractible Power Supply for GSM7228PS and GSM7252PS Series
APS135W	NETGEAR ProSafe Extractible Power Supply for GSM7328S and GSM7352S Series
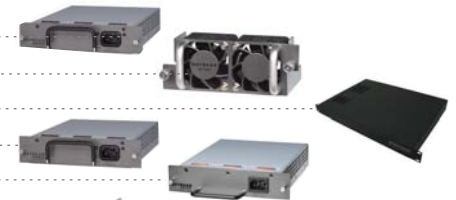
Modules – Optics and Cables

AXM761	NETGEAR ProSafe 10GBase-SR SFP+ LC Optics (multimode, 300m OM3 50/125μm, 33m OM1 62.5/125μm)
AXM763	NETGEAR ProSafe 10GBase-LRM SFP+ LC Optics (long reach multimode, 220m OM1 62.5/125μm or OM3 50/125μm)
AXM762	NETGEAR ProSafe 10GBase-LR SFP+ LC Optics (single mode, 10km 9/125μm)
AXC761	NETGEAR ProSafe 1m Direct Attach SFP+ to SFP+ Cable
AXC763	NETGEAR ProSafe 3m Direct Attach SFP+ to SFP+ Cable
AXC753	NETGEAR ProSafe 3m Direct Attach XFP to SFP+ Cable
AX742	NETGEAR ProSafe 24G Stacking Kit for GSM7xxxS series (2 modules, 1 cable)
AGM734	NETGEAR ProSafe 1000BaseT SFP RJ45 GBIC (for Gigabit RJ45 connectivity across all XSM7224S SFP+ ports)
AGM731F	NETGEAR ProSafe 1000Base-SX SFP LC GBIC (multimode, 550m OM3 50/125μm, 275m OM1 62.5/125μm)
AGM732F	NETGEAR ProSafe 1000Base-LX SFP LC GBIC (single mode, 10km 9/125μm)

www.netgear.com

NETGEAR®
Connect with Innovation™