NETGEAR ENTERPRISE

DATA SHEET

5-port 2.5G Multi-Gigabit Ethernet Unmanaged Essentials Switch MS305

Multi-gig wired speed for your office, studio, or home lab, without the setup or the noise



The NETGEAR MS305 removes the Gigabit bottleneck with five 2.5G ports, plug-and-play setup, and a silent, fanless metal design, all backed by NETGEAR

Your internet, WiFi, and NAS have moved past Gigabit. Your switch probably hasn't. With five 2.5G ports, the MS305 helps eliminate bottlenecks, and accelerate file transfers, without the need for rewiring or new cabling.

Many internet plans now exceed 1 Gbps, WiFi 7 and WiFi 6E access points push multi-gig backhaul, and NAS drives and workstations ship with 2.5G ports. Every MS305 port auto-negotiates 100M, 1G, or 2.5G, so new and existing devices each get the speed they need, and you can upgrade on your own schedule.

There's no software and nothing to configure: plug it in and it works. The durable metal enclosure runs silently on a desk, on a shelf, or mounted on a wall, and is backed by a 3-year hardware warranty.

Highlights

Beyond Gigabit

Five 2.5G ports deliver up to 2.5x Gigabit speed on every port. Non-blocking 25 Gbps switching capacity keeps all five ports running at full speed, so a large NAS backup doesn't slow down a game or a video call.

Zero setup. Zero noise.

No app, login, or firmware to manage. Plug in power, connect your devices, and go. The fanless design has no moving parts and makes no noise.

Built for performance

With a metal enclosure, a specified MTBF of 4.59 million hours at 25 °C, and an operating temperature range of 0 to 40 °C, the MS305 is designed for dependable operation in home and office setup.

Low power, always on

A low-power design with Energy Efficient Ethernet (IEEE 802.3az) keeps running costs down for a device that stays on around the clock.

Automatic traffic handling

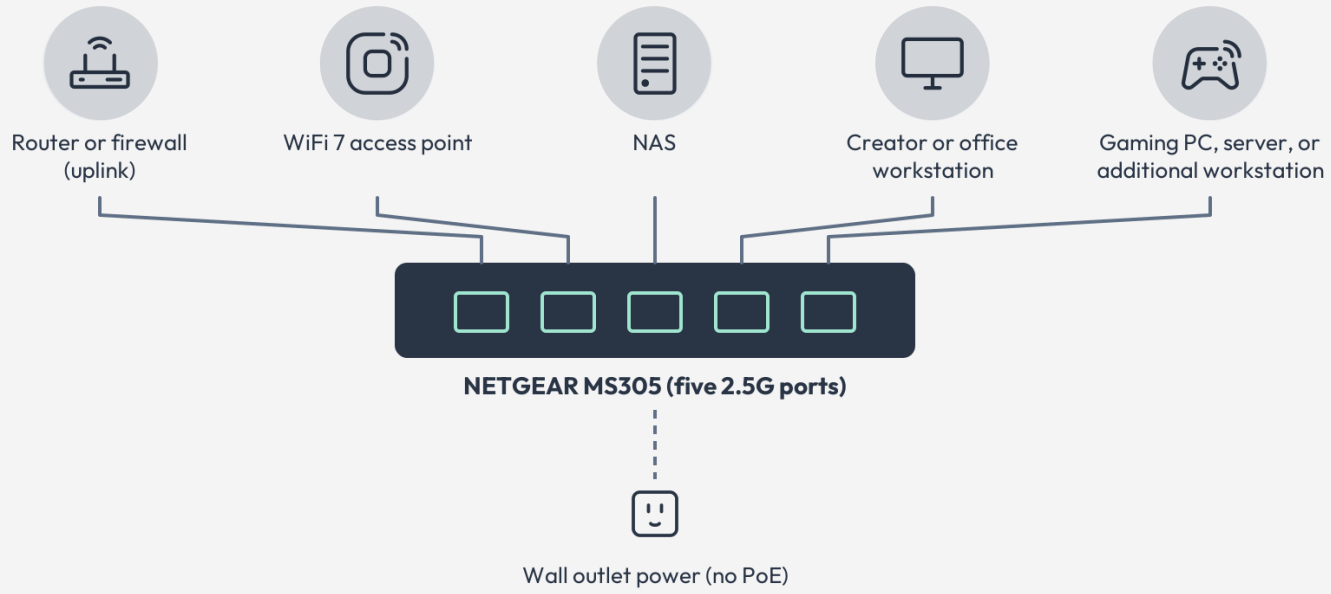
802.1p and DSCP priority tags from upstream routers and access points are honored automatically, so voice, video, and gaming traffic keeps its priority. Jumbo frame support speeds up large file and backup transfers.

Backed by NETGEAR

Every MS305 is backed by NETGEAR testing, a 3-year hardware warranty, 45 days of free 24x7 technical support, and 3 years of online chat support.

Typical deployment

One port connects to your router or firewall; the other four give your fastest devices multi-gig speed. The MS305 is powered from a wall outlet and does not supply PoE, so access points need their own power source or a PoE injector.



Features and benefits

Features	Description
Five 2.5G Ethernet ports	Up to 2.5x the speed of Gigabit on every port, with auto-negotiation to 100M, 1G, or 2.5G
Non-blocking 25 Gbps switching	All five ports run at wire speed at the same time, so one big transfer doesn't slow everyone else down
Built for multi-gig endpoints	Ideal for WiFi 7 and WiFi 6E access point backhaul, 2.5G NAS, gaming PCs and consoles, creator workstations, and home lab servers
Jumbo frame support	Larger packets for faster, more efficient bulk file and backup transfers
Plug-and-play setup	No software, app, login, or firmware updates; power it on and connect
Automatic traffic priority	Honors 802.1p and DSCP tags from upstream routers and access points, so latency-sensitive traffic stays smooth
At-a-glance status	Per-port LEDs show link, activity, and speed
Silent, fanless operation	No moving parts and no noise for desks, studios, and bedrooms
Metal enclosure, desktop or wall mount	Wall-mount kit included; compact 158 x 101 x 27 mm footprint
Low power draw	Low-power design with Energy Efficient Ethernet (IEEE 802.3az) reduces consumption on idle links
Reliability	4.59 million hours MTBF at 25 °C
Operating range	0 to 40 °C (32 to 104 °F) for home and office desks, shelves, cabinets, and closets
NETGEAR warranty and support	3-year hardware warranty*, 45 days of free 24x7 technical support, and 3 years of online chat support



Technical specifications

Specification	MS305v2
Interfaces	
RJ-45 ports	5 × 2.5G/Multi-Gig RJ-45
Port speeds	100M / 1G / 2.5G (auto-sensing)
Auto-MDI/MDIX	All ports
Performance	
Switching capacity	25 Gbps
Forwarding rate	3.72 Mpps per 2.5G port
Packet buffer	1 MB
MAC address table	4K entries
Jumbo frames	Up to 12K bytes (12,288 bytes)
Switching mode	Non-blocking, store-and-forward; non-head-of-line blocking
QoS	802.1p/CoS, DSCP, 8 priority queues, WRR (1:3:5:7:8:10:12:15)
Port latency	100M: <8.4 µs | 1G: <2.5 µs | 2.5G: <5.8 µs
Management	
Management type	Unmanaged, plug-and-play
Web UI	Not supported
Firmware upgrade	Not applicable
Physical	
Form factor	Desktop, wall-mountable
Housing	Metal enclosure and metal RJ-45 ports
LEDs (per port)	Speed, Link, Activity
LEDs (per device)	Power
Dimensions (W × D × H)	158 × 101 × 27 mm (6.22 × 3.98 × 1.06 in)
Weight	0.48 kg (1.06 lb)
Cooling	Fanless (passive)
Acoustic noise	0 dB (fanless)
MTBF @ 25°C	4,588,159 hrs
Power	
Power supply	External AC adapter (included)
Adapter input	100–240 V AC, 50/60 Hz
Adapter output	12 V DC, 1.5 A
Maximum power consumption	5.57 W
Standby power (link down)	0.954 W
Heat dissipation	19.0 BTU/hr max; 3.3 BTU/hr standby
Energy efficiency	IEEE 802.3az Energy Efficient Ethernet, auto power down, short-cable power saving

Technical specifications

Specification	MS305v2
Environmental	
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Operating humidity	90% max relative humidity, non-condensing
Storage humidity	95% max relative humidity
Standards & compliance	
IEEE standards	IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, IEEE 802.3x, IEEE 802.1p, IEEE 802.3az, 802.3
Regulatory certifications	CE, FCC, VCCI, CB, BSMI, RCM, KC, UKCA, ICES
Warranty and support	
Hardware warranty	3-year limited hardware warranty
Power adapter warranty	2 years
Technical support	45 days complimentary 24/7 support
Online chat support	3 years
Package contents	
Switch unit	MS305v2
Power adapter	External AC power adapter with regional plug
Wall mount kit	Wall mount kit
Documentation flyer	Documentation download card (scan to access online resources at netgear.com/support)

Ordering information

Region	Part number
North America	MS305-200NAS
Europe	MS305-200EUS
Australia and New Zealand	MS305-200AUS
Japan	MS305-200JPS

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