

Netgear(GSM4248UX-100EUS)
40G8XF-PoE++40x1G Ultra90 PoE++802.3bt



The M4250 switches are designed for a clean integration with traditional rack-mounted AV equipment. A sleek display panel provides port and activity status in the front, with all power and network cabling neatly organized in the back.

As video transitions to running over an IP network versus direct cabling or even HDBaseT, there are many things to consider. The AV Line incorporates NETGEAR IGMP Plus for flawless video over IP (including audio and control).

If you are using Dante or AVB in your audio deployment, you can trust that NETGEAR's AV Line switches are designed to seamlessly integrate into your solution.

The M4250 AV interface presents the common AV controls right up front with user-selectable profiles for common AV platforms making it a snap to ensure the settings are correct for a specific audio or video application.

Main Specifications

Product Description	NETGEAR AV Line M4250-40G8XF-PoE++ - switch - 40 ports - Managed - rack-mountable
Device Type	Switch - 40 ports - L3 - Managed
Enclosure Type	Side to side airflow rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	40 x 10/100/1000 (PoE++) + 8 x 1 Gigabit / 10 Gigabit SFP+
Power Over Ethernet (PoE)	PoE++
PoE Budget	2880 W
Performance	Switching capacity: 240 Gbps Firewall throughput (64-byte packet size): 178.56 Mpps 1 Gbps fibre latency (64-byte packets): 1.084 µs 1 Gbps fibre latency (512-byte packets): 1.103 µs 1 Gbps fibre latency (1024-byte packets): 1.098 µs 1 Gbps fibre latency (1518-byte packets): 1.115 µs 1 Gbps copper latency (64-byte packets): 2.251 µs 1 Gbps copper latency (512-byte packets): 2.625 µs 1 Gbps copper latency (1024-byte packets): 2.775 µs 1 Gbps copper latency (1518-byte packets): 2.641 µs 10 Gbps fibre latency (64-byte packets): 0.708 µs 10 Gbps fibre latency (512-byte packets): 0.716 µs 10 Gbps fibre latency (1024-byte packets): 0.728 µs 10 Gbps fibre latency (1518-byte packets): 0.713 µs
Capacity	ARP entries: 4000 NDP entries: 4000 Packet buffer size: 32 MB VLANs supported: 4093 IGMP multicast groups: 4000 QoS hardware queues: 8 IPv4 routes (static): 64 IPv6 routes (static): 64 RIP application route scaling (IPv4): 32 IPv4 groups (Multicast): 512 IPv6 groups (Multicast): 128
MAC Address Table Size	16K entries
Jumbo Frame Support	12KB
Routing Protocol	RIP-1, RIP-2, IGMPv2, IGMP, PIM-SM, PIM-DM, IGMPv3, PIM-SSM, static IPv4 routing, static IPv6 routing, policy-based routing (PBR), MLDv2, MLD, PIM-SMv6, PIM-DMv6, MSTP, RSTP, STP
Remote Management Protocol	SNMP 1, SNMP 2, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP, SFTP, ICMP, DHCP, TACACS+, RADIUS
Features	Flow control, auto-sensing per device, BOOTP support, IGMP snooping, port mirroring, DiffServ support, store and forward, MAC address filtering, Broadcast Storm Control, full duplex mode, Multicast Storm Control, Unicast Storm Control, STP support, Weighted Random Early Detection (WRED), sFlow, DHCP snooping, Quality of Service (QoS), DHCP server, MLD snooping, Dynamic ARP Inspection (DAI), STP Root Guard, Uni-Directional Link Detection (UDLD), LACP support, LLDP support, DHCP relay, Port Security, Remote Switch Port Analyzer (RSPAN), Energy Efficient Ethernet, Multicast VLAN Registration (MVR), dual firmware images, Multiple VLAN Registration Protocol (MVRP), Neighbor Discovery Protocol (NDP), Class of Service (CoS), Strict Priority (SP), Generic Attribute Registration Protocol (GARP), Generic VLAN Registration Protocol (GVRP), IGMP proxy, 802.1x authentication, Precision Time Protocol (PTP), DiffServ Code Point (DSCP) support, cable test, MLD proxy, IP source

guard,GARP Multicast Registration Protocol (GMRP),Source-Specific Multicast (SSM),DNS client,Voice VLAN,LLDP-MED,RA guard,STP BPDU Guard,STP loop guard,Denial of Service (DoS) protection,Protocol Independent Multicast (PIM),Audio Video Bridging (AVB),MAC Access Bypass (MAB),Link Aggregation Group (LAG),multiple tag protocol identifiers (TPID),IPTV support,Management Access Control and Administration List (MACAL),Industry Standard Discovery Protocol (ISDP),Rapid PVST+ (RPVST+),Multiple Registration Protocol (MRP),STP BPDU Filtering,STP BPDU Flooding,MGMD Snooping,Any Source Multicast (ASM)

Compliant Standards	IEEE 802.3,IEEE 802.3u,IEEE 802.1D,IEEE 802.1Q,IEEE 802.3ab,IEEE 802.1p,IEEE 802.3af,IEEE 802.3x,IEEE 802.3ad (LACP),IEEE 802.1w,IEEE 802.1x,IEEE 802.3ac,IEEE 802.1s,IEEE 802.1v,IEEE 802.1ab (LLDP),IEEE 802.3at,IEEE 802.3az,IEEE 802.1AX,IEEE 802.3bt
Dimensions (WxDxH)	44 cm x 35 cm x 8.64 cm
Weight	10.28 kg
Localisation	Europe
Manufacturer Warranty	ProSAFE lifetime warranty

Extended Specification

General

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Enclosure Type	Side to side airflow rack-mountable 1U
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Remote Management Protocol	SNMP 1,SNMP 2,RMON 1,RMON 2,RMON 3,RMON 9,Telnet,SNMP 3,HTTP,HTTPS,TFTP,SSH,SSH-2,CLI,SCP,SFTP,ICMP,DHCP,TACACS+,RADIUS
Encryption Algorithm	AES,TLS 1.0,SSL 3.0,TLS 1.2
Authentication Method	Secure Shell (SSH),RADIUS,TACACS+
Features	Flow control,auto-sensing per device,BOOTP support,IGMP snooping,port mirroring,DiffServ support,store and forward,MAC address filtering,Broadcast Storm Control,full duplex mode,Multicast Storm Control,Unicast Storm Control,SNTP support,Weighted Random Early Detection (WRED),sFlow,DHCP snooping,Quality of Service (QoS),DHCP server,MLD snooping,Dynamic ARP Inspection (DAI),STP Root Guard,Uni-Directional Link Detection (UDLD),LACP support,LLDP support,DHCP relay,Port Security,Remote Switch Port Analyzer (RSPAN),Energy Efficient Ethernet,Multicast VLAN Registration (MVR),dual firmware images,Multiple VLAN Registration Protocol (MVRP),Neighbor Discovery Protocol (NDP),Class of Service (CoS),Strict Priority (SP),Generic Attribute Registration Protocol (GARP),Generic VLAN Registration Protocol (GVRP),IGMP proxy,802.1x authentication,Precision Time Protocol (PTP),DiffServ Code Point (DSCP) support,cable test,MLD proxy,IP source guard,GARP Multicast Registration Protocol (GMRP),Source-Specific Multicast (SSM),DNS client,Voice VLAN,LLDP-MED,RA guard,STP BPDU Guard,STP loop guard,Denial of Service (DoS) protection,Protocol Independent Multicast (PIM),Audio Video Bridging (AVB),MAC Access Bypass (MAB),Link Aggregation Group (LAG),multiple tag protocol identifiers (TPID),IPTV support,Management Access Control and Administration List (MACAL),Industry Standard Discovery Protocol (ISDP),Rapid PVST+ (RPVST+),Multiple Registration Protocol (MRP),STP BPDU Filtering,STP BPDU Flooding,MGMD Snooping,Any Source Multicast (ASM)

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Processor	X ARM:1.8 GHz
RAM	2 GB
Flash Memory	256 MB
Status Indicators	Port status,power,fan,PoE max

Expansion / Connectivity

Interfaces	40 x 10/100/1000 Base-T RJ-45 PoE++ - 90 W 8 x 1000Base-X/10GBase-X SFP+ 1 x management (Gigabit LAN) RJ-45 1 x management (RS-232) RJ-45 1 x USB-C 1 x USB Type A
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Power

Power Device	Internal power supply
Installed Qty	3
Power Consumption Operational	3523 Watt
Power Consumption Stand by	68.5 Watt

Miscellaneous

Included Accessories	Rubber feet,rubber caps
Cables Included	1 x console cable 1 x USB-C to USB-A cable
Rack Mounting Kit	Included

MTBF	304,916 hours
Compliant Standards	cUL,EN 60950,UL 1950,CB,CCC,EN 60950-1,GB 4943,RCM,EN 61000-3-3:2013,EN 55024:2010,EN 61000-3-2:2014,FCC CFR47 Part 15 A,CNS 13438 Class A,EN 55032:2012+AC:2013 Class A,CNS 14336-1,EN 62368-1,IEC 62368-1,IEC 950,AS/NZS 60950-1:2015,ICES-003:2016 issue 6 Class A,CISPR 32:2012,VCCI-CISPR 32:2016 Class A,AS/NZS CISPR32:2013 Class A,IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013,EN 60950-1:2006+A1:2010+A11:2009+A2:2013+A12:2011+A2:2013,ANSI C63.4:2014
Localisation	Europe

Dimensions &Weight

Width	44 cm
Depth	35 cm
Height	8.64 cm
Weight	10.28 kg

Manufacturer Warranty

Service &Support	Limited warranty - lifetime Limited warranty - technical support - 90 days
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	45 °C
Humidity Range Operating	90% (non-condensing)
Min Storage Temperature	-20 °C
Max Storage Temperature	70 °C
Humidity Range Storage	95% (non-condensing)

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