

NX 5000 Switch Series



Product overview

Newbridge NX 5000 Managed L2/L3 Switch series consists of four models switches with 10/100/1000 Connectivity and up to 4-port 10G SFP+ expansion slots.

NX 5328GF comes with 24-port SFP, inclusive of 8-port 10/100/1000 Base-T (Combo), 2-slot 10G module options, max up to 4-port 10Gbps SFP+ Transceivers.

NX 5352GF comes with 48-port SFP; inclusive of 4-port 10/100/1000 Base-T (Combo), 2-slot 10G module options, max up to 4-port 10Gbps SFP+ Transceivers.

NX 5628GS comes with 24-port 10/100/1000BaseT, 4-slot SFP+ slots

NX 5652GS comes with 48-port 10/100/1000BaseT, 4-slot SFP+ slots

Combination of NX 5300 and NX 5600 with Static Route, RIP and OSPF Routing, robust security and management features, as well as Limited Lifetime Warranty and included software updates, the NX 5000 Switch Series is best cost-effective yet high performance for enterprise-core and edge IP surveillance or Wi-Fi Network Infrastructures.

A summary of the highlights of the NX 5000 Switch Series

- Cost-effective core and access layer switches
- Layer 3 Static, RIP and OSPF Routing
- 30 W PoE+ Support on PoE models
- Gigabit and 10 Gigabit Fiber uplinks
- Enterprise-class features

Features and benefits

- Gigabit speed non-blocking wired speed performance.
- 1/10 Gigabit speed backbone/uplink
- Jumbo Frame
- 32,000 MAC address
- Port mirroring
- Broadcast Storm Control
- Multicast
- Advanced classifier-based QoS
- Port-based VLAN
- Port-based rate limiting
- Traffic prioritization
- IEEE 802.1AB link-layer discovery protocol (LLDP)
- Auto-MDIX
- IEEE 802.3ad link-aggregation-control protocol (LACP)
- DHCP Server
- ACLs filtering
- STP, RSTP and MSTP to prevent looping when configure redundant link backbone/uplink
- Independent VLAN learning (IVL) and Share VLAN leaning (SVL) for configuration of more complex "asymmetrical cross-vlan" traffic patterns, without forcing the switch to flood the unicast traffic in each direction.
- 802.1x authentications, user IP, MAC address authentications
- 4096 VLANs
- Static Route, RIP1/RIP2 and OSPF Routing and VRRP.
- IP multicast routing
- Limited Lifetime warranty

Newbridge NX 5000 Series

Specifications



NX 5328GF



NX 5352GF

Ports		
	8 Combo RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	4 Combo RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	24 SFP fixed 1000 SFP port	48 SFP fixed 1000 SFP port
	4 SFP+ fixed 1000/10000 SFP+ port	4 SFP+ fixed 1000/10000 SFP+ port
	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical Characteristics		
Dimensions	17.32 (W) x 12.59 (d) x 1.73 (h) in (44 x 32 x 4.4 cm) (1U Height)	17.32 (W) x 11.22 (d) x 1.73 (h) in (44 x 28.5 x 4.4cm) (1U Height)
Weight	9.92 lbs (4.5 kg)	9.92 lbs (4.5 kg)
Mounting		
	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet rack-mounting kit available); horizontal surface mounting wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet rack-mounting kit available); horizontal surface mounting wall mounting
Performance		
100 Mb Latency		
1000 Mb Latency	< 2.8 μ s	< 3.8 μ s
10 Gb/s Latency	< 1.9 μ s	< 1.6 μ s
Throughput	96 Mpps	131 Mpps
Switching Capacity	240 Gbps	280 Gbps
MAC address table size	32000 entries	32000 entries

NX 5328GF**NX 5352GF**

Environment

Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	10% to 90% @ 104°C (40°C), noncondensing	10% to 90% @ 104°C (40°C), noncondensing
Non-operating/Storage temperature	- 40°F to 158°F (-40°C to 70°C)	- 40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	5% to 90% @ 149°C (65°C), noncondensing	5% to 90% @ 149°C (65°C), noncondensing

Electrical Characteristic

Frequency	50/60 Hz	50/60 Hz
Maximum heat dissipation	159 BTU/hr (105.5 kJ/hr)	159 BTU/hr (105.5 kJ/hr)
Voltage	100-127/200-240 VAC	100-127/200-240 VAC
Current	0.9/0.6 A	0.9/0.6 A
Maximum Power rating	60 W	60 W

Safety

UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC60950-1; EN60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC60950-1; EN60950-1
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Emissions

FCC Class B; CE Class B; VCCI Class B; C-Tick	FCC Class B; CE Class B; VCCI Class B; C-Tick
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Management

SNMP v1/v2/v3; Web; CLI; Console	SNMP v1/v2/v3; Web; CLI; Console
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Services

Refer to Newbridge Technologies Website at www.newbridgewireless.net/support for details on the service-level description and product numbers. For details about services, and response times in your area, please contact your local Newbridge Technologies sales office of authorized distributor	Refer to Newbridge Technologies Website at www.newbridgewireless.net/support for details on the service-level description and product numbers. For details about services, and response times in your area, please contact your local Newbridge Technologies sales office of authorized distributor
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	NX 5328GF	NX 5352GF
Standards and Protocols		
General Protocols	IEEE 802.3	IEEE 802.3
	IEEE 802.3u	IEEE 802.3u
	IEEE 802.3ab	IEEE 802.3ab
	IEEE 802.3x	IEEE 802.3x
	IEEE 802.1x flow control	IEEE 802.1x flow control
	IEEE 802.3ae	IEEE 802.3ae
	IEEE 802.3ad	IEEE 802.3ad
	IEEE 802.1ab-2005,	IEEE 802.1ab-2005,
	IEEE 802.w	IEEE 802.w
	IEEE 802.1p	IEEE 802.1p
Access Control		
	L2/L3 Packet filtering	L2/L3 Packet filtering
	Port based VLAN	Port based VLAN
	Low-Based Destination port redirection	Low-Based Destination port redirection
	Flow-based rate-limiting	Flow-based rate-limiting
	Flow-based QoS marking	Flow-based QoS marking
VLAN		
	802.1Q VLAN	802.1Q VLAN
	4096 VLAN	4096 VLAN
	GMRP	GMRP
Address Table		
	Address Display/Query	Address Display/Query
	IVL/SVL	IVL/SVL
	Static MAC address setting	Static MAC address setting
	Dynamic MAC address management	Dynamic MAC address management
	MAC address filtering	MAC address filtering

	NX 5328GF	NX 5352GF
Port Management	Port Aggregation, Trunking Port Monitoring Port rate-limiting Storm suppression	Port Aggregation, Trunking Port Monitoring Port rate-limiting Storm suppression
Spanning Tree	STP (802.1d) RSTP (802.1w) MSTP EPRS	STP (802.1d) RSTP (802.1w) MSTP EPRS
Multicast	IGMP V1/V2/V3 IGMP Snooping Fast Leave Multicast address management Multicast VLAN Multicast routing port Static multicast address Discard unknown multicast packets Multicast Filtering	IGMP V1/V2/V3 IGMP Snooping Fast Leave Multicast address management Multicast VLAN Multicast routing port Static multicast address Discard unknown multicast packets Multicast Filtering
QoS	SP (Strict Priority) Strict Priority Rotation Arithmetic WRR (Weighted Round Robin), Weighting Priority Rotation 802.1p port queue priority rotation arithmetic Cos/Tos, QOS remark 802.1P Priority	SP (Strict Priority) Strict Priority Rotation Arithmetic WRR (Weighted Round Robin), Weighting Priority Rotation 802.1p port queue priority rotation arithmetic Cos/Tos, QOS remark 802.1P Priority
DHCP	DHCP Client Option 82 DHCP snooping DHC attack protection	DHCP Client Option 82 DHCP snooping DHC attack protection
Layer 3	Static Route	Static Route

System Management

Configuration import and export
 System Time
 Ping Tracert Detect
 System Log/Log Server
 Web: HTTP
 CLI :Telnet
 Console

Configuration import and export
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Specifications**NX 5628GS****NX 5652GS****Ports**

24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
 4 SFP+ fixed 1000/10000 SFP+ port

1 RJ-45 serial console port

48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
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Performance**100 Mb Latency**

< 2.8 μ s

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1000 Mb Latency

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10 Gb/s Latency**Throughput**

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NX 5628GS

NX 5652GS

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	Dynamic MAC address management	Dynamic MAC address management
	MAC address filtering	MAC address filtering
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Port Management

Port Aggregation, Trunking
Port Monitoring
Port rate-limiting
Storm suppression

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Spanning Tree

STP (802.1d)
RSTP (802.1w)
MSTP
EPRS

STP (802.1d)
RSTP (802.1w)
MSTP
EPRS

Multicast

IGMP V1/V2/V3
IGMP Snooping
Fast Leave
Multicast address management
Multicast VLAN
Multicast routing port
Static multicast address
Discard unknown multicast packets
Multicast Filtering

IGMP V1/V2/V3
IGMP Snooping
Fast Leave
Multicast address management
Multicast VLAN
Multicast routing port
Static multicast address
Discard unknown multicast packets
Multicast Filtering

QoS

SP (Strict Priority)
Strict Priority Rotation Arithmetic
WRR (Weighted Round Robin),
Weighting Priority Rotation
802.1p port queue priority rotation
arithmetic
Cos/Tos, QOS remark
802.1P Priority

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DHCP

DHCP Client
Option 82
DHCP snooping
DHC attack protection

DHCP Client
Option 82
DHCP snooping
DHC attack protection

NX 5628GS**NX 5652GS**

Layer 3

Static Route

Static Route

RIP1/RIP/2

RIP1/RIP/2

VRRP

VRRP

OSPF

OSPF

ARP

ARP

Configuration import and export

Configuration import and export

System Management

System Time

System Time

Ping Tracert Detect

Ping Tracert Detect

System Log/Log Server

System Log/Log Server

Web: HTTP

Web: HTTP

CLI :Telnet

CLI :Telnet

Console

Console

Newbridge NX 5000 Series

Part No	Descriptions
NX-5328GF-UK	Newbridge NX 5328GF; 24-port SFP with 8-port 10/100/1000 Base-T (Combo) 2-slot 10G module options
NX-5352GF-UK	Newbridge NX 5352GF; 48-port SFP, 4-port 10/100/1000 Base-T (Combo), 2-slot 10G module options
NX-5302M	Newbridge NX 5302M, 2-port 10G SFP+ module, (transceivers or DAC req)
NX-5628GS-UK	Newbridge NX 5628GS; 24-port 10/100/1000BaseT, 4-slot SFP+
NX-5652GS-UK	Newbridge NX 5652GS; 48-port 10/100/1000BaseT, 4-slot SFP+
NX-SFP+CU-DAC-3	Newbridge NX DAC, 10G SFP+ Copper Twinax cable 3m
NX-SFP+AOC-DAC-5	Newbridge NX DAC, 10G SFP+ Fiber cable, 5m
NX-X-SFP	Newbridge 1000 BASE-SX/LX SFP Transceiver; LC connector; multimode/singlemode
NX-SR-SFP+	Newbridge 10G BASE-SR SFP+ Transceiver, LC connector, multimode
NX-LR-SFP+	Newbridge 10G BASE-LR SFP+ Transceiver, LC connector, singlemode

Standard Warranty: Lifetime Warranty



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