

## NX Switch 2800



### Product overview

Newbridge NX 2800 Managed Switch Series Consists of four models of switches with 10/100BaseTX and 10/100/1000BaseT for **models 2810T and 2810G**, and **models 2826T and 2826G**.

NX 2810T come with 6-port 10/100BaseT; 2-port 10/100/1000BaseT and 2-port SFP

NX 2826T come with 20-port 10/100BaseT; 4-port 10/100/1000BaseT and 2-port SFP

NX 2810G, 8-port 10/100/1000BaseT and 2-port SFP

NX 2826G, 24-port 10/100/1000BaseT and 2-port SFP

With all Ethernet port come with built in lightning protection, robust security and management features, as well as Limited Lifetime Warranty and included software updates, the NX 2800 Managed Switch Series is best cost-effective PoE edge IP surveillance or Wi-Fi Network Infrastructures.

### A summary of the highlights of the NX 2800 Switch Series

- Cost-effective access layer switches
- Layer 2 Managed Switch
- Gigabit Fiber uplinks
- Enterprise-class feature

### **Features and benefits**

- Switch auto-configuration – automatically configure switch for different setting such as VLAN, CoS, QoS enable video traffics prioritized
- Rate limiting to provide bandwidth and power surge.
- Auto-MDIX, provides automatic adjustments for straights-through or crossover cables on all 10/100 and 10/100/1000 ports.
- IEEE 802.3 ad link-aggregation-control protocol (LACP)
- IEEE 802.1ab-2005, Link Layer Discovery Protocol. It simplifies the deployment of access devices and enhances endpoint mapping, troubleshooting and management.
- IEEE 802.w, Rapid Spanning Tree Protocol preventing loops on Ethernet networks

## Newbridge NX 2800 Series

### Specifications



**NX 2810T**



**NX 2826T**

	<b>NX 2810T</b>	<b>NX 2826T</b>
<b>Ports</b>	<p>6 RJ-45 autosensing 10/100 port (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</p> <p>2 RJ-45 autosensing 10/100/100BASE-T (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</p> <p>2 SFP 100/1000 Mbps slots</p>	<p>20 RJ-45 autosensing 10/100 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</p> <p>4 RJ-45 autosensing 10/100/100BASE-T 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</p> <p>2 SFP 100/1000 Mbps slots</p>
<b>Physical Characteristics</b>		
<b>Dimensions</b>	11.22 (W) x 7.08 9(d) x 1.73 (h) in (28.5 x 18 x 4.4 cm) (1U Height)	17.32 (W) x 10.63 (d) x 1.73 (h) in (44 x 27 x 4.4 cm) (1U Height)
<b>Weight</b>	4.40 lbs (2.0 kg)	12.13 lbs (5.5 kg)
<b>Mounting</b>	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
<b>Performance</b>		
<b>100 Mb Latency</b>	< 1.3 $\mu$ s	< 1.7 $\mu$ s
<b>1000 Mb Latency</b>	< 1.3 $\mu$ s	< 1.1 $\mu$ s
<b>10 Gb/s Latency</b>	NA	NA
<b>Throughput</b>	4.1 Mpps	9.6 Mpps
<b>Switching Capacity</b>	5.6 Gbps	12.8 Gbps
<b>MAC address table size</b>	4000 entries	4000 entries
<b>Environment</b>		
<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)	32°F to 131°F (0°C to 55°C)

	<b>NX 2810T</b>	<b>NX 2826T</b>
<b>Operating relative humidity</b>	10% to 90% @ 104°F (40°C), noncondensing	10% to 90% @ 104°F (40°C), noncondensing
<b>Storage temperature</b>	- 40°F to 158°F (-40°C to 70°C)	- 40°F to 158°F (-40°C to 70°C)
<b>Storage relative humidity</b>	5% to 90% @ 149°C (65°C), noncondensing	5% to 90% @ 149°C (65°C), noncondensing
<b>Electrical Characteristic</b>		
<b>Frequency</b>	50/60 Hz	50/60 Hz
<b>Maximum heat disipation</b>	29 BTU/hr (30.6 kJ/hr), (Switch only: 29 BTU/hr, combined switch + max PoE devices: 262 BTU/hr.	99 BTU/hr (104.45 kJ/hr), (Switch only: 99 BTU/hr, combined switch + max PoE devices: 809 BTU/hr.
<b>Voltage</b>	100-127/200-240 VAC	100-127/200-240 VAC
<b>Current</b>	1.4 A	2.8/1.4 A
<b>Maximum Power rating</b>	60 W	90 W
<b>Safety</b>	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
<b>Emissions</b>	FCC Class B; CE Class B; VCCI Class B; C-Tick	FCC Class B; CE Class B; VCCI Class B; C-Tick
<b>Management</b>	SNMP v1/v2/v3; Web; CLI; Console	SNMP v1/v2/v3; Web; CLI; Console
<b>Services</b>	Refer to Newbridge Technologies Website at <a href="http://www.newbridgewireless.net/support">www.newbridgewireless.net/support</a> 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 <a href="http://www.newbridgewireless.net/support">www.newbridgewireless.net/support</a> 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

## Standards and Protocols

<b>General Protocols</b>		
	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 802.3ad	IEEE 802.3ad
	IEEE 802.1ab-2005,	IEEE 802.1ab-2005,

	<b>NX 2810T</b>	<b>NX 2826T</b>
	IEEE 802.w IEEE 802.1p	IEEE 802.w IEEE 802.1p
<b>Access Control</b>	L2~L3 Packet filtering Port based VLAN Low-Based Destination port redirection Flow-based rate-limiting Flow-based QoS marking	L2~L3 Packet filtering Port based VLAN Low-Based Destination port redirection Flow-based rate-limiting Flow-based QoS marking
<b>VLAN</b>	802.1Q VLAN Private VLAN 4096 VLAN	802.1Q VLAN 4096 VLAN GMRP
<b>Address Table</b>	Address Display/Query IVL/SVL Static MAC address setting Dynamic MAC address management MAC address filtering	Address Display/Query IVL/SVL Static MAC address setting Dynamic MAC address management MAC address filtering
<b>Port Management</b>	Port Aggregation, Trunking Port Monitoring Port rate-limiting Storm suppression	Port Aggregation, Trunking Port Monitoring Port rate-limiting Storm suppression
<b>Spanning Tree</b>	STP (802.1d) RSTP (802.1w)	STP (802.1d) RSTP (802.1w) MSTP
<b>Multicast</b>	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

**NX 2810T****NX 2826T**

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<b>QoS</b>	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
<b>DHCP</b>	DHCP Client Option 82 DHCP snooping DHC attack protection	DHCP Client Option 82 DHCP snooping DHC attack protection
<b>Layer 3</b>	Static Route RIP1/RIP/2	Static Route RIP1/RIP/2
<b>System Management</b>	Configuration import and export System Time System Log/Log Server Web: HTTP CLI: Telnet	Configuration import and export System Time System Log/Log Server Web: HTTP CLI: Telnet

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## Specifications



**NX 2810G**



**NX 2826G**

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<b>Ports</b>	8 RJ-45 autosensing 10/100/100BASE-T 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 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
	2 SFP 100/1000 Mbps slots	2 SFP 100/1000 Mbps slots
	1 RJ-45 serial console port	1 RJ-45 serial console port

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### Physical Characteristics

<b>Dimensions</b>	11.02 (W) x 7.09 (d) x 1.38 (h) in (28 x 18 x 3.5 cm)	17.32 (W) x 11.42 (d) x 1.73 (h) in (44 x 29 x 4.4cm) (1U Height)
<b>Weight</b>	5.51 lbs (2.5 kg)	12.13 lbs (5.5 kg)

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<b>Mounting</b>	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
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### Performance

<b>100 Mb Latency</b>	< 7.4 $\mu$ s	< 7 $\mu$ s
<b>1000 Mb Latency</b>	< 2.6 $\mu$ s	< 2 $\mu$ s
<b>10 Gb/s Latency</b>	NA	NA
<b>Throughput</b>	14.8 Mpps	77.3 Mpps
<b>Switching Capacity</b>	16 Gbps	52 Gbps
<b>MAC address table size</b>	8000 entries	8000 entries

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### Environment

<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)	32°F to 122°F (0°C to 50°C)
<b>Operating relative humidity</b>	10% to 90% @ 104°F (40°C), noncondensing	10% to 90% @ 104°F (40°C), noncondensing
<b>Storage temperature</b>	- 40°F to 158°F (-40°C to 70°C)	- 40°F to 158°F (-40°C to 70°C)
<b>Storage relative humidity</b>	5% to 90% @ 149°C (65°C), noncondensing	5% to 90% @ 149°C (65°C), noncondensing

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### Electrical Characteristic

<b>Frequency</b>	50/60 Hz	50/60 Hz
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	<b>NX 2810G</b>	<b>NX 2826G</b>
<b>Maximum heat disipation</b>	65 BTU/hr (68.58 kJ/hr), (Switch only: 65 BTU/hr, combined switch + max PoE devices: 293 BTU/hr.	135 BTU/hr (142.42 kJ/hr), (Switch only: 135 BTU/hr, combined switch + max PoE devices: 843 BTU/hr.
<b>Voltage</b>	100-127/200-240 VAC	100-127/200-240 VAC
<b>Current</b>	1.4 A	3.5/1.9 A
<b>Maximum Power rating</b>	60 W	90 W
<b>Safety</b>	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
<b>Emissions</b>	FCC Class B; CE Class B; VCCI Class B; C-Tick	FCC Class B; CE Class B; VCCI Class B; C-Tick
<b>Management</b>	SNMP v1/v2/v3; Web; CLI; Console	SNMP v1/v2/v3; Web; CLI; Console
<b>Services</b>	Refer to Newbridge Technologies Website at <a href="http://www.newbridgewireless.net/support">www.newbridgewireless.net/support</a> 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 <a href="http://www.newbridgewireless.net/support">www.newbridgewireless.net/support</a> 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

## Standards and Protocols

<b>General Protocols</b>	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x IEEE 802.1x flow control IEEE 802.3ad IEEE 802.1ab-2005, IEEE 802.w IEEE 802.1p	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x IEEE 802.1x flow control IEEE 802.3ad IEEE 802.1ab-2005, IEEE 802.w IEEE 802.1p
<b>Access Control</b>	L2~L3 Packet filtering Port based VLAN Low-Based Destination port redirection	L2~L3 Packet filtering Port based VLAN Low-Based Destination port redirection



	<b>NX 2810G</b>	<b>NX 2826G</b>
	Flow-based rate-limiting Flow-based QoS marking	Flow-based rate-limiting Flow-based QoS marking
<b>VLAN</b>	802.1Q VLAN 4096 VLAN GMRP	802.1Q VLAN 4096 VLAN GMRP
<b>Address Table</b>	Address Display/Query IVL/SVL Static MAC address setting Dynamic MAC address management MAC address filtering	Address Display/Query IVL/SVL Static MAC address setting Dynamic MAC address management MAC address filtering
<b>Port Management</b>	Port Aggregation, Trunking Port Monitoring Port rate-limiting Storm suppression	Port Aggregation, Trunking Port Monitoring Port rate-limiting Storm suppression
<b>Spanning Tree</b>	STP (802.1d) RSTP (802.1w) MSTP	STP (802.1d) RSTP (802.1w) MSTP
<b>Multicast</b>	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
<b>QoS</b>	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	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

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**NX 2810G****NX 2826G**

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802.1P Priority

802.1P Priority

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**DHCP**DHCP Client  
Option 82  
DHCP snooping  
DHC attack protectionDHCP Client  
Option 82  
DHCP snooping  
DHC attack protection

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**Layer 3**Static Route  
RIP1/RIP/2Static Route  
RIP1/RIP/2

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**System Management**Configuration import and export  
System Time  
System Log/Log Server  
Web: HTTP  
CLI: Telnet  
ConsoleConfiguration import and export  
System Time  
System Log/Log Server  
Web: HTTP  
CLI: Telnet  
Console

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## Newbridge NX 2800 Series

Part No	Descriptions
NX-2810T-UK	Newbridge NX 2810T, 6-port 10/100BaseT; 2-port 10/100/1000BaseT; 2-port SFP
NX-2826T-UK	Newbridge NX 2826T, 20-port 10/100BaseT; 4-port 10/100/1000BaseT; 2-port SFP
NX-2810G-UK	Newbridge NX 2810G, 8-port 10/100/1000BaseT, 2-port SFP
NX-2826G-UK	Newbridge NX 2826G, 24-port 10/100/1000BaseT, 2-port SFP
NX-SX-SFP	Newbridge 1000 BASE-SX SFP Transceiver; LC connector; multimode
NX-LX-SFP	Newbridge 1000 BASE-LX SFP Transceiver; LC connector; singlemode and multimode



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