NEWBRIDGE NETWORKING

NX Switch 2800-POE+

Product overview

Newbridge NX 2800 Managed Switch Series Consists of four models of switches with 10/100BaseTX and 10/100/1000BaseT IEEE 802.3af- and IEEE 802.3at-compliance that provide up to **30 W per power port** with total budget **150 Watt for models 2810T-POE+ and 2810G-POE+,** and **450 Watt total power budget for models 2826T-POE+ and 2826G-POE+.**

NX 2810T-POE+ come with 6-port 10/100BaseT POE/+; 2-port 10/100/1000BaseT POE/+ and 2-port SFP (150W)

NX 2826T-POE+ come with 20-port 10/100BaseT POE/+; 4-port 10/100/1000BaseT POE/+ and 2-port SFP (450W)

NX 2810G-POE+, 8-port 10/100/1000BaseT POE/+ and 2-port SFP (150W)

NX 2826G-POE+, 24-port 10/100/1000BaseT POE/+ and 2-port SFP (450W)

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 PoE or PoE+ device access layer switches

- Layer 2 Managed Switch

- 30 W PoE+ Support on PoE models

- Gigabit Fiber uplinks

- Enterprise-class features

Features and benefits

- Auto-power over Ethernet to devices, up to 30 W Per point.
- Switch auto-configuration – automatically configure switch for different setting such as VLAN, CoS, PoE max power, and PoE priority when AP and Camera detected.
- 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 802.2af power over Ethernet (PoE) – provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras.
- IEEE 802.at PoE+ - provides up to 30 W per port to IEEE 802.3 for PoE/PoE+ powered devices such as video IP Phones, IEEE 802.11ac wireless access points, and advanced pan/tilt/zoom security cameras
- Pre-standard PoE support – detects and provides power to pre-standard PoE devices
- 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-PoE+	**NX 2826T-PoE+**
Ports	6 RJ-45 autosensing 10/100 POE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); IEEE 802.3at PoE+), Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	20 RJ-45 autosensing 10/100 POE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); IEEE 802.3at PoE+), Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	2 RJ-45 autosensing 10/100/100BASE-T POE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); IEEE 802.3at PoE+), Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	4 RJ-45 autosensing 10/100/100BASE-T POE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); IEEE 802.3at PoE+), 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

Physical Characteristics

Dimensions	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)
Weight	4.40 lbs (2.0 kg)	12.13 lbs (5.5 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	< 1.3 µs	< 1.7 µs
1000 Mb Latency	< 1.3 µs	< 1.1 µs
10 Gb/s Latency	NA	NA
Throughput	4.1 Mpps	9.6 Mpps
Switching Capacity	5.6 Gbps	12.8 Gbps
MAC address table size	4000 entries	4000 entries

Environment

Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 131°F (0°C to 55°C)

	NX 2810T-PoE+	NX 2826T-PoE+
Operating relative humidity	10% to 90% @ 104°F (40°C), noncondensing	10% to 90% @ 104°F (40°C), noncondensing
Storage temperature	- 40°F to 158°F (-40°C to 70°C)	- 40°F to 158°F (-40°C to 70°C)
Storage relative humidity	5% to 90% @ 149°C (65°C), noncondensing	5% to 90% @ 149°C (65°C), noncondensing

Electrical Characteristic

	NX 2810T-PoE+	NX 2826T-PoE+
Frequency	50/60 Hz	50/60 Hz
Maximum heat disiipation	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.
Voltage	100-127/200-240 VAC	100-127/200-240 VAC
Current	1.4 A	2.8/1.4 A
Maximum Power rating	150 W	450 W
POE Power Budget	150 W, max 30 W per port	450 W, max 30 W per port
Note:	PoE Power is the total power budget available to all PoE ports	PoE Power is the total power budget available to all PoE ports
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
Emissions	FCC Class B; CE Class B; VCCI Class B; C-Tick	FCC Class B; CE Class B; VCCI Class B; C-Tick
Management	SNMP v1/v2/v3; Web; CLI; Console	SNMP v1/v2/v3; Web; CLI; Console
Services	Refer to Newbridge Technologies Website at www.newbridgewireleess.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.newbridgewireleess.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

Standards and Protocols

	NX 2810T-PoE+	NX 2826T-PoE+
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 802.3af/at	IEEE 802.3af/at
	IEEE 802.1x flow control	IEEE 802.1x flow control
	IEEE 802.3ad	IEEE 802.3ad
	IEEE 802.1ab-2005,	IEEE 802.1ab-2005,

	NX 2810T-PoE+	NX 2826T-PoE+
	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
	Private VLAN	4096 VLAN
	4096 VLAN	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
Port Management	Port Aggregation, Trunking	Port Aggregation, Trunking
	Port Monitoring	Port Monitoring
	Port rate-limiting	Port rate-limiting
	Storm suppression	Storm suppression
Spanning Tree	STP (802.1d)	STP (802.1d)
	RSTP (802.1w)	RSTP (802.1w)
		MSTP
Multicast	IGMP V1/V2/V3	IGMP V1/V2/V3
	IGMP Snooping	IGMP Snooping
	Fast Leave	Fast Leave
	Multicast address management	Multicast address management
	Multicast VLAN	Multicast VLAN
	Multicast routing port	Multicast routing port
	Static multicast address	Static multicast address
	Discard unknown multicast packets	Discard unknown multicast packets
	Multicast Filtering	Multicast Filtering

	NX 2810T-PoE+	NX 2826T-PoE+
QoS	SP (Strict Priority）	SP (Strict Priority）
	Strict Priority Rotation Arithmetic	Strict Priority Rotation Arithmetic
	WRR (Weighted Round Robin),	WRR (Weighted Round Robin),
	Weighting Priority Rotation	Weighting Priority Rotation
	802.1p port queue priority rotation arithmetic	802.1p port queue priority rotation arithmetic
	Cos/Tos, QOS remark	Cos/Tos, QOS remark
	802.1P Priority	802.1P Priority
DHCP	DHCP Client	DHCP Client
	Option 82	Option 82
	DHCP snooping	DHCP snooping
	DHC attack protection	DHC attack protection
Layer 3	Static Route	Static Route
	RIP1/RIP/2	RIP1/RIP/2
System Management	Configuration import and export	Configuration import and export
	System Time	System Time
	System Log/Log Server	System Log/Log Server
	Web: HTTP	Web: HTTP
	CLI: Telnet	CLI: Telnet

Specifications

	NX 2810G-POE+	NX 2826G-POE+
Ports	8 RJ-45 autosensing 10/100/100BASE-T POE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); IEEE 802.3at PoE+), Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	24 RJ-45 autosensing 10/100/1000 POE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000Base-T); IEEE 802.3at PoE+), 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

Physical Characteristics

Dimensions	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)
Weight	5.51 lbs (2.5 kg)	12.13 lbs (5.5 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	< 7.4 µs	< 7 µs
1000 Mb Latency	< 2.6 µs	< 2 µs
10 Gb/s Latency	NA	NA
Throughput	14.8 Mpps	77.3 Mpps
Switching Capacity	16 Gbps	52 Gbps
MAC address table size	8000 entries	8000 entries

Environment

Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 122°F (0°C to 50°C)
Operating relative humidity	10% to 90% @ 104°F (40°C), noncondensing	10% to 90% @ 104°F (40°C), noncondensing
Storage temperature	- 40°F to 158°F (-40°C to 70°C)	- 40°F to 158°F (-40°C to 70°C)
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

	NX 2810G-POE+	NX 2826G-POE+
Maximum heat disiipation	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.
Voltage	100-127/200-240 VAC	100-127/200-240 VAC
Current	1.4 A	3.5/1.9 A
Maximum Power rating	150 W	450 W
POE Power Budget	150 W, max 30 W per port	450 W, max 30 W per port
Note:	PoE Power is the total power budget available to all PoE ports	PoE Power is the total power budget available to all PoE ports
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
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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	IEEE 802.3af/at	IEEE 802.3af/at
	IEEE 802.1x flow control	IEEE 802.1x flow control
	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
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	4096 VLAN	4096 VLAN
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	Static MAC address setting	Static MAC address setting
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	MSTP	MSTP
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	IGMP Snooping	IGMP Snooping
	Fast Leave	Fast Leave
	Multicast address management	Multicast address management
	Multicast VLAN	Multicast VLAN
	Multicast routing port	Multicast routing port
	Static multicast address	Static multicast address
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	Weighting Priority Rotation	Weighting Priority Rotation
	802.1p port queue priority rotation arithmetic	802.1p port queue priority rotation arithmetic
	Cos/Tos, QOS remark	Cos/Tos, QOS remark

	NX 2810G-POE+	NX 2826G-POE+
	802.1P Priority	802.1P Priority
DHCP	DHCP Client	DHCP Client
	Option 82	Option 82
	DHCP snooping	DHCP snooping
	DHC attack protection	DHC attack protection
Layer 3	Static Route	Static Route
	RIP1/RIP/2	RIP1/RIP/2
System Management	Configuration import and export	Configuration import and export
	System Time	System Time
	System Log/Log Server	System Log/Log Server
	Web: HTTP	Web: HTTP
	CLI: Telnet	CLI: Telnet
	Console	Console

Newbridge NX 2800 Series

Part No	Descriptions
NX-2810TP-UK	Newbridge NX 2810T-POE+, 6-port 10/100BaseT POE/+; 2-port 10/100/1000BaseT POE/+; 2-port SFP (150W)
NX-2826TP-UK	Newbridge NX 2826T-POE+, 20-port 10/100BaseT POE/+; 4-port 10/100/1000BaseT POE/+; 2-port SFP (450W)
NX-2810GP-UK	Newbridge NX 2810G-POE+, 8-port 10/100/1000BaseT POE/+, 2-port SFP (150W)
NX-2826GP-UK	Newbridge NX 2826G-POE+, 24-port 10/100/1000BaseT POE/+, 2-port SFP (450W)
NX-X-SFP	Newbridge 1000 BASE-SX/LX SFP Transceiver; LC connector; multimode/singlemode

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