NT24k® Modular Managed Gigabit Ethernet Switches

- Hot swappable modules with Fast Ethernet and Gigabit configurations
- Robust remote monitoring with N-View™ monitoring technology
- Smart plug-and-play operation
- DIN-rail and rackmount options
- Extreme environment specifications

MODEL NUMBER	TYPE	POWER OPTIONS	TOTAL PORTS	FAST ETHERNET	GIGABIT ETHERNET			OPERATING TEMP
				100 FIBER	10/100/1000 COPPER	1000 FIBER	GIG SFP	
NT24k-DC1	Managed	Single 18-49VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 85˚C
NT24k-DC2	Managed	Dual 18-49VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 85˚C
NT24k-AC1	Managed	Single 90-264VAC/ 90-300VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 85˚C
NT24k-AC2	Managed	Dual 90-264VAC/ 90-300VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 85˚C
NT24k-AC1-DC1	Managed	Single 90-264VAC/ 90-300VDC & 18-49VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 85˚C
NT24k-DR16-DC	Managed	Redundant 18-49VDC	Up to 16	Up to 16	Up to 16	Up to 16	Up to 16	-40˚ to 75˚C
NT24k-DR16-AC	Managed	90-264VAC/ 90-300VDC	Up to 16	Up to 16	Up to 16	Up to 16	Up to 16	-40˚ to 75˚C
NT24k-DR24-DC	Managed	Redundant 18-49VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 75˚C
NT24k-DR24-AC	Managed	90-264VAC/ 90-300VDC	Up to 24	Up to 24	Up to 24	Up to 24	Up to 24	-40˚ to 75˚C

SFP ports support 100Base or 1000Base SFP transceivers, which are sold separately.
Low-voltage power supplies feature redundant power inputs.

Compact NT24k Managed Switches

- Fast Ethernet, Gigabit, fiber and SFP models
- Robust remote monitoring with N-View monitoring technology
- Smart plug-and-play operation
- Extreme environment specifications

MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET	GIGABIT ETHERNET			MOUNTING & CASE	OPERATING TEMP
			100 FIBER	10/100/1000 COPPER	1000 FIBER	GIG SFP		
NT24k-8TX	Managed	8	-	8	-	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24K-10FX2	Managed	10	2	8	-	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-10GX2	Managed	10	-	8	2	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-11FX3	Managed	11	3	8	-	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-11GX3	Managed	11	-	8	3	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-12FX4	Managed	12	4	8	-	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-12GX4	Managed	12	-	8	4	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-12SFP-DM4	Managed	12	-	8	-	4	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-14FX6	Managed	14	6	8	-	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-14GX6	Managed	14	-	8	6	-	DIN-Rail – Metal	-40˚ to 85˚C
NT24k-16TX	Managed	16	-	16	-	-	DIN-Rail – Metal	-40˚ to 85˚C

SFP ports support 100Base or 1000Base SFP transceivers, which are sold separately.
Multimode and singlemode options available. FX models available with SC or ST connectors; GX models available with SC style connectors.

700 & 7000 Managed Ethernet Switches

- Plug-and-play deployment with IGMP auto-configuration
- N-View monitoring provides real-time switch diagnostics
- Ideally suited to use as N-Ring or N-Link manager

	MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET		GIGABIT ETHERNET		MOUNTING & CASE	OPERATING TEMP
				10/100 COPPER	100 FIBER	10/100/1000 COPPER	GIG SFP		
700	708TX	Managed	8	8	-	-	-	DIN-Rail – Metal	-40˚ to 85˚C
700	708FX2	Managed	8	6	2	-	-	DIN-Rail – Metal	-40˚ to 85˚C
700	709FX*	Managed	9	8	1	-	-	DIN-Rail – Metal	-40˚ to 70˚C
700	710FX2*	Managed	10	8	2	-	-	DIN-Rail – Metal	-40˚ to 70˚C
700	711FX3*	Managed	11	8	3	-	-	DIN-Rail – Metal	-40˚ to 70˚C
700	712FX4*	Managed	12	8	4	-	-	DIN-Rail – Metal	-40˚ to 70˚C
700	714FX6	Managed	14	8	6	-	-	DIN-Rail – Metal	-40˚ to 70˚C
700	716TX	Managed	16	16	-	-	-	DIN-Rail – Metal	-40˚ to 70˚C
700	716FX2	Managed	16	14	2	-	-	DIN-Rail – Metal	-40˚ to 70˚C
7000	7010TX	Managed	10	8	-	-	Up to 2	DIN-Rail – Metal	-40˚ to 70˚C
7000	7012FX2*	Managed	12	8	2	-	Up to 2	DIN-Rail – Metal	-40˚ to 70˚C
7000	7018TX	Managed	18	16	-	-	Up to 2	DIN-Rail – Metal	-40˚ to 70˚C
7000	7018FX2	Managed	18	14	2	-	Up to 2	DIN-Rail – Metal	-40˚ to 70˚C
7000	7026TX	Managed	26	24	-	-	Up to 2	Rackmount – Metal	-40˚ to 80˚C
7000	7026TX-AC	Managed	26	24	-	-	Up to 2	Rackmount – Metal	-40˚ to 80˚C
7000	7506GX2 (All Gigabit)	Managed	6	-	-	4	Up to 2	DIN-Rail – Metal	-40˚ to 80˚C
7000	7900 (Modular)	Managed	26	Up to 24	Up to 16	-	Up to 2	DIN-Rail – Metal	-20˚ to 70˚C

**KEMA approved IEC 61850-3 and IEEE 1613 HV models available.*
Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.
SFP ports support 1000Base SFP transceivers, which are sold separately.

SLX Managed Ethernet Switches

- Versatile networking solutions with copper and fiber models
- Real-time Modbus over Ethernet monitoring
- Fast Ethernet and Gigabit port options
- DIN-rail or panel mounting options

MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET		GIGABIT ETHERNET		MOUNTING & CASE	OPERATING TEMP
			10/100 COPPER	100 FIBER	10/100/1000 COPPER	GIG SFP		
SLX-5MS-1	Managed	5	5	-	-	-	DIN-Rail – Metal	-40˚ to 75˚C
SLX-5MS-4/5	Managed	5	3	2	-	-	DIN-Rail – Metal	-40˚ to 75˚C
SLX-5MS-MDM-1	Managed	5	5	-	-	-	DIN-Rail – Metal	-40˚ to 75˚C
SLX-8MS-1	Managed	8	8	-	-	-	DIN-Rail – Metal	-40˚ to 75˚C
SLX-8MS-4/5/8/9	Managed	8	4 or 6	2 or 4	-	-	DIN-Rail – Metal	-40˚ to 75˚C
SLX-8MG-1 (All Gigabit)	Managed	8	-	-	8	Up to 4 Combo Ports	DIN-Rail – Metal	-40˚ to 75˚C
SLX-10MG-1	Managed	10	7	-	3	Up to 2 Combo Ports	DIN-Rail – Metal	-40˚ to 75˚C
SLX-16MS-1	Managed	16	16	-	-	-	DIN-Rail – Metal	-40˚ to 75˚C
SLX-18MG-1	Managed	18	16	-	2	Up to 2 Combo Ports	DIN-Rail – Metal	-40˚ to 75˚C

Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.
SFP ports support 100Base or 1000Base SFP transceivers, which are sold separately.

Advanced Managed Ethernet Switches

Red Lion's advanced managed industrial Ethernet switches offer powerful enterprise-class networking with security options that prevent unauthorized access and enable policy enforcement. These powerful switches provide QoS traffic classification and sophisticated multicast controls, reducing traffic and ensuring real-time message delivery. The flexible industrial design is built to support the harshest environments.

EL Advanced Management Ethernet Switches

- Layer 3 functionality with enterprise class networking features
- Hardened enclosure for harsh industrial applications
- Up to 10G ports for high-bandwidth backhaul
- Advanced security control

MODEL NUMBER	TYPE	POWER OPTIONS	TOTAL PORTS	GIGABIT ETHERNET		10 GIG	OPERATING TEMP
				10/100/1000 COPPER	GIGABIT SFP		
EL326-DO-1*	Managed – Layer 3	Single 18-59 VDC	26	24	Up to 4 SFP (4 Combo)	Up to 2	-35° to 75°C
EL326-DD-1*	Managed – Layer 3	Dual 18-59 VDC	26	24	Up to 4 SFP (4 Combo)	Up to 2	-35° to 75°C
EL326-AO-1*	Managed – Layer 3	Single 85-264 VAC or 90-300 VDC	26	24	Up to 4 SFP (4 Combo)	Up to 2	-35° to 80°C
EL326-AA-1*	Managed – Layer 3	Dual 85-264 VAC or 90-300 VDC	26	24	Up to 4 SFP (4 Combo)	Up to 2	-35° to 80°C

**Rackmount - Metal*
SFP ports support 100Base or 1000Base SFP transceivers, which are sold separately.

Monitored Ethernet Switches

Red Lion's monitored industrial Ethernet switches provide network performance monitoring with Modbus or N-View monitoring technology. These rugged, compact switches are built for mission-critical applications and provide cost-effective network monitoring options that can be integrated directly into any industrial control system.

- > Layer 2 unmanaged industrial switches
- > Network performance monitoring via Modbus or N-View technology
- > Versatile networking solutions
- > Copper and fiber port configurations
- > Hardened for the toughest applications

Monitored Ethernet Switch Comparison

SWITCH MODELS	HAZARDOUS LOCATION		MARITIME	SUBSTATION	MONITORING	ADVANCED FEATURES	16KV SURGE SUPPRESSION	REDUNDANT POWER	HOUSING MATERIAL
	UL CLASS 1, DIVISION 2	ATEX	ABS	IEEE 1613					
500-A Process Control	X	X	X	X	N-View	Auto IGMP	X	X	Metal
500-N Monitored	X	X	X	X	N-View		X	X	Metal
300-N Monitored	X	X	X	O	N-View		X	X	Metal
SLX Monitored	X	X			Modbus	RTR		X	Metal
SL Monitored	X	X			Modbus	RTR		X	Lexan
Legend:	X - All models		O - Some models		RTR - Real-Time Ring				

500-A Monitored Process Control Switches

- > Advanced management features include IGMP snooping, VLAN, QoS and Port Mirroring
- > N-View monitoring provides real-time switch diagnostics
- > Rugged industrial DIN-rail and rackmount options

MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET		MOUNTING & CASE	OPERATING TEMP
			10/100 COPPER	100 FIBER		
508TX-A	Process Control	8	8	-	DIN-Rail – Metal	-40˚ to 85˚C
508FX2-A	Process Control	8	6	2	DIN-Rail – Metal	-40˚ to 85˚C
509FX-A	Process Control	9	8	1	DIN-Rail – Metal	-40˚ to 85˚C
516TX-A	Process Control	16	16	-	DIN-Rail – Metal	-40˚ to 85˚C
517FX-A	Process Control	17	16	1	DIN-Rail – Metal	-40˚ to 85˚C
524TX-A	Process Control	24	24	-	Rackmount – Metal	-40˚ to 85˚C
526FX2-A	Process Control	26	24	2	Rackmount – Metal	-40˚ to 85˚C

Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.

300 & 500 Monitored Fast Ethernet Switches

- High reliability in industrial applications
- Plug-and-play operation
- N-View monitoring provides real-time switch diagnostics

	MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET 10/100 COPPER	FAST ETHERNET 100 FIBER	MOUNTING & CASE	OPERATING TEMP
300	302MC-N	Monitored	2	1	1	DIN-Rail – Metal	-40˚ to 70˚C
300	304TX-N	Monitored	4	4	-	DIN-Rail – Metal	-40˚ to 70˚C
300	305FX-N	Monitored	5	4	1	DIN-Rail – Metal	-40˚ to 70˚C
300	306TX-N	Monitored	6	6	-	DIN-Rail – Metal	-40˚ to 70˚C
300	306FX2-N	Monitored	6	4	2	DIN-Rail – Metal	-40˚ to 70˚C
300	308TX-N	Monitored	8	8	-	DIN-Rail – Metal	-40˚ to 70˚C
300	308FX2-N	Monitored	8	6	2	DIN-Rail – Metal	-40˚ to 85˚C
300	309FX-N	Monitored	9	8	1	DIN-Rail – Metal	-40˚ to 85˚C
300	316TX-N	Monitored	16	16	-	DIN-Rail – Metal	-40˚ to 85˚C
300	317FX-N	Monitored	17	16	1	DIN-Rail – Metal	-40˚ to 85˚C
500	508TX-N	Monitored	8	8	-	DIN-Rail – Metal	-40˚ to 85˚C
500	508FX2-N	Monitored	8	6	2	DIN-Rail – Metal	-40˚ to 85˚C
500	509FX-N	Monitored	9	8	1	DIN-Rail – Metal	-40˚ to 85˚C
500	516TX-N	Monitored	16	16	-	DIN-Rail – Metal	-40˚ to 85˚C
500	517FX-N	Monitored	17	16	1	DIN-Rail – Metal	-40˚ to 85˚C
500	524TX-N	Monitored	24	24	-	Rackmount – Metal	-40˚ to 85˚C
500	526FX2-N	Monitored	26	24	2	Rackmount – Metal	-40˚ to 85˚C

Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.

SL & SLX Fast Ethernet Ring Switches

- Fast, fault-tolerant Real-Time Ring network redundancy
- Pre-configured for plug-and-play ring functionality
- Redundant power inputs
- Real-time Modbus over Ethernet monitoring

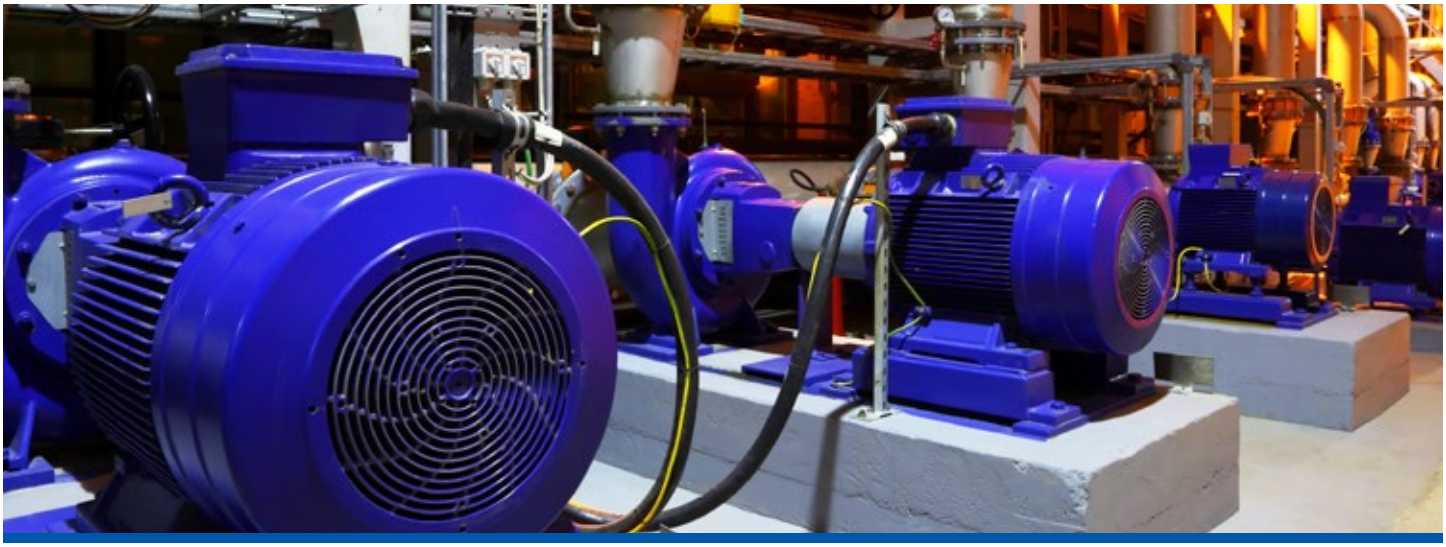
MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET 10/100 COPPER	FAST ETHERNET 100 FIBER	MOUNTING & CASE	OPERATING TEMP
SL-6RS-1	Ring	6	6	-	DIN-Rail – Lexan	-40˚ to 60˚C
SL-6RS-4/5	Ring	6	4	2	DIN-Rail – Lexan	-40˚ to 60˚C
SLX-6RS-1	Ring	6	6	-	DIN-Rail – Metal	-40˚ to 85˚C
SLX-6RS-4/5	Ring	6	4	2	DIN-Rail – Metal	-40˚ to 85˚C

Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.

Unmanaged Ethernet Switches

Red Lion's industrial unmanaged Ethernet switches offer powerful network performance with plug-and-play functionality. With an endless range of port options, these unmanaged switches are set to tackle the demands of industrial data acquisition, control and Ethernet I/O applications.

- > Compact IEEE 802.3 Layer 2 industrial switches
- > Automatic speed, duplex and cable sensing
- > Designed for use in mission-critical applications
- > Plug-and-play functionality

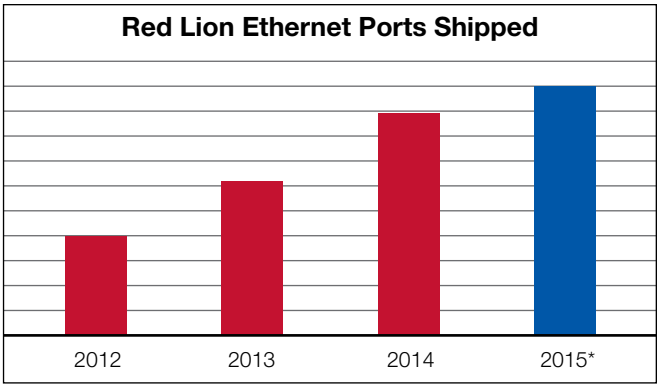


Unmanaged Ethernet Switch Comparison

	HAZARDOUS LOCATION		MARITIME		SUBSTATION	RAIL	TRAFFIC			
SWITCH MODELS	UL CLASS 1, DIVISION 2	ATEX	ABS	DNV	IEEE 1613	EN 50155	NEMA TS1/TS2	JUMBO FRAME	M12 CONNECTORS	HOUSING MATERIAL
100 Unmanaged	X	X	X	O		O			O	Metal
300 Unmanaged	X	X	X		O					Metal
500 Unmanaged	X	X	X		X					Metal
1000 Unmanaged	X	O	X	O	O	X	O	O		Metal
SLX Unmanaged	X	X	X					O		Metal
SL Unmanaged	X	X	X							Lexan
Legend:	X - All models		O - Some models							

Industrial Ethernet & the IIoT

Building on the foundation of the Internet of Things, the Industrial Internet of Things (IIoT) promises significant returns for businesses looking to better connect and share data between disparate devices. With potential returns achieved through greater efficiency, process improvements and preventative maintenance, Red Lion offers an array of rugged, reliable industrial Ethernet switches to meet varying IIoT requirements. And the number of Ethernet ports shipped continues to grow year over year as more and more organizations turn to Red Lion.



**2015 data is forecasted*

100, 300 & 500 Unmanaged Fast Ethernet Switches

- Compact, rugged, all-metal enclosure
- Wide operating temperature range
- Redundant power inputs

	MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET		MOUNTING & CASE	OPERATING TEMP
				10/100 COPPER	100 FIBER		
100	102MC	Unmanaged	2	1	1	DIN-Rail – Metal	-40˚ to 80˚C
	104TX	Unmanaged	4	4	-	DIN-Rail – Metal	-40˚ to 80˚C
	105TX	Unmanaged	5	5	-	DIN-Rail – Metal	-40˚ to 80˚C
	105TX-SL	Unmanaged	5	5	-	DIN-Rail – Metal	-40˚ to 85˚C
	105FX	Unmanaged	5	4	1	DIN-Rail – Metal	-40˚ to 70˚C
	106FX2	Unmanaged	6	4	2	DIN-Rail – Metal	-40˚ to 70˚C
	108TX	Unmanaged	8	8	-	DIN-Rail – Metal	-40˚ to 70˚C
	110FX2	Unmanaged	10	8	2	DIN-Rail – Metal	-40˚ to 80˚C
	111FX3	Unmanaged	11	8	3	DIN-Rail – Metal	-40˚ to 80˚C
	112FX4	Unmanaged	12	8	4	DIN-Rail – Metal	-40˚ to 80˚C
	114FX6	Unmanaged	14	8	6	DIN-Rail – Metal	-40˚ to 80˚C
	116TX	Unmanaged	16	16	-	DIN-Rail – Metal	-40˚ to 85˚C
300	302MC	Unmanaged	2	1	1	DIN-Rail – Metal	-40˚ to 70˚C
	304TX	Unmanaged	4	4	-	DIN-Rail – Metal	-40˚ to 70˚C
	305FX	Unmanaged	5	4	1	DIN-Rail – Metal	-40˚ to 70˚C
	306TX	Unmanaged	6	6	-	DIN-Rail – Metal	-40˚ to 70˚C
	306FX2	Unmanaged	6	4	2	DIN-Rail – Metal	-40˚ to 70˚C
	308TX	Unmanaged	8	8	-	DIN-Rail – Metal	-40˚ to 70˚C
	308FX2	Unmanaged	8	6	2	DIN-Rail – Metal	-40˚ to 85˚C
	309FX	Unmanaged	9	8	1	DIN-Rail – Metal	-40˚ to 85˚C
	316TX	Unmanaged	16	16	-	DIN-Rail – Metal	-40˚ to 85˚C
	317FX	Unmanaged	17	16	1	DIN-Rail – Metal	-40˚ to 85˚C
500	508TX	Unmanaged	8	8	-	DIN-Rail – Metal	-40˚ to 85˚C
	508FX2	Unmanaged	8	6	2	DIN-Rail – Metal	-40˚ to 85˚C
	509FX	Unmanaged	9	8	1	DIN-Rail – Metal	-40˚ to 85˚C
	516TX	Unmanaged	16	16	-	DIN-Rail – Metal	-40˚ to 85˚C
	517FX	Unmanaged	17	16	1	DIN-Rail – Metal	-40˚ to 85˚C
	524TX	Unmanaged	24	24	-	Rackmount – Metal	-40˚ to 85˚C
	526FX2	Unmanaged	26	24	2	Rackmount – Metal	-40˚ to 85˚C

Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.

1000 & SLX Unmanaged Gigabit Ethernet Switches

- Plug-and-play unmanaged operation
- Gigabit-speed port options
- Compact, rugged, all-metal enclosures

MODEL NUMBER	TYPE	TOTAL PORTS	GIGABIT ETHERNET		MOUNTING & CASE	OPERATING TEMP
			10/100/1000 COPPER	GIG SFP		
1002MC	Unmanaged	2	1	1 SFP	DIN-Rail – Metal	-40° to 85°C
1003GX2	Unmanaged	3	1	2 SFP	DIN-Rail – Metal	-40° to 85°C
1005TX	Unmanaged	5	5	-	DIN-Rail – Metal	-40° to 85°C
1008TX	Unmanaged	8	8	-	DIN-Rail – Metal	-40° to 85°C
SLX-3EG-1SFP	Unmanaged	3	2	1 SFP	DIN-Rail – Metal	-40° to 85°C
SLX-5EG-1	Unmanaged	5	5 (4 PoE)	-	DIN-Rail – Metal	-40° to 85°C
SLX-5EG-2SFP	Unmanaged	5	3 PoE	2 SFP	DIN-Rail – Metal	-40° to 85°C

SFP transceivers sold separately.

SL & SLX Unmanaged Fast Ethernet Switches

- Mixed copper and fiber port options
- Compact lightweight Lexan or all-metal housing
- Redundant power inputs

	MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET		MOUNTING & CASE	OPERATING TEMP
				10/100 COPPER	100 FIBER		
SL	SL-2ES-2/3	Unmanaged	2	1	1	DIN-Rail – Lexan	-10° to 60°C
SL	SL-5ES-1	Unmanaged	5	5	-	DIN-Rail – Lexan	-40° to 60°C
SL	SL-5ES-2/3	Unmanaged	5	4	1	DIN-Rail – Lexan	-40° to 60°C
SL	SL-6ES-4/5	Unmanaged	6	4	2	DIN-Rail – Lexan	-40° to 60°C
SL	SL-8ES-1	Unmanaged	8	8	-	DIN-Rail – Lexan	-40° to 60°C
SL	SL-9ES-2/3	Unmanaged	9	8	1	DIN-Rail – Lexan	-40° to 60°C
SLX	SLX-3ES-2/3	Unmanaged	3	2	1	DIN-Rail – Metal	-40° to 85°C
SLX	SLX-5ES-1	Unmanaged	5	5	-	DIN-Rail – Metal	-40° to 85°C
SLX	SLX-5ES-2/3	Unmanaged	5	4	1	DIN-Rail – Metal	-40° to 85°C
SLX	SLX-6ES-4/5	Unmanaged	6	4	2	DIN-Rail – Metal	-40° to 85°C
SLX	SLX-8ES-1	Unmanaged	8	8	-	DIN-Rail – Metal	-40° to 85°C
SLX	SLX-8ES-6/7	Unmanaged	8	5	3	DIN-Rail – Metal	-40° to 85°C
SLX	SLX-9ES-2/3	Unmanaged	9	8	1	DIN-Rail – Metal	-40° to 85°C

Fiber models available in multimode and singlemode configurations with SC or ST fiber connectors.