

Managed Ethernet Switches

Red Lion's rugged, reliable managed industrial Ethernet switches support industry-standard applications. These hardened switches are ideally suited for harsh industrial environments where real-time performance under extreme operating conditions is required. Built-in redundancy and network management ensure communications stay up and running while providing tools for monitoring and tracking.

- > Layer 2 managed industrial Ethernet switches
- > Rugged enclosure supports deployment in extreme environments
- > Powerful network management
- > Gigabit copper, fiber and SFP options



Managed Ethernet Switch Comparison

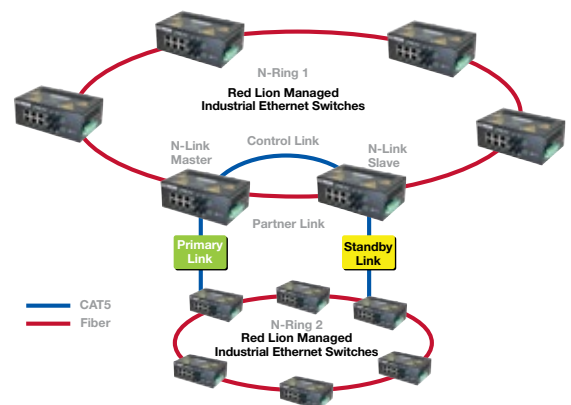
SWITCH MODELS	HAZARDOUS LOCATION		MARITIME	SUBSTATION	RAIL	MAX PORTS	NETWORK REDUNDANCY	CIP MESSAGING	16KV SURGE SUPPRESSION	MOUNTING
	UL CLASS 1, DIVISION 2	ATEX	ABS	IEC 61850 IEEE 1613	EN 50155					
NT24k® Managed	X		X		O	24	N-Ring™/N-Link™/RSTP	X	X	DR & RM
700 Managed	X	O	X	O	O	16	N-Ring/N-Link/RSTP	X	X	DR
7000 Managed	X	O	X	O	O	26	N-Ring/N-Link/RSTP	X	X	DR & RM
SLX Managed	X		X			18	Real-Time Ring/RSTP			DR & PM
EL Managed	X	X				26	Real-Time Ring/RSTP			PM
Legend:	X - All models		O - Some models		DR - DIN-rail		PM - Panel Mount		RM - Rackmount	

Network Healing Technologies

N-Ring® is a proprietary high-speed ring technology that provides consistent healing times of ~20 milliseconds (ms) for up to 250 switches. **N-Link®** provides the ability to link two N-Rings for network redundancy.

Real-Time Ring is a highly-reliable, proprietary ring technology from Sixnet offering 30 ms healing time plus 5 ms per hop.

Rapid Spanning Tree Protocol (RSTP) IEEE 802.1w is an industry standard protocol providing ~2-3 second recovery time and offers a solution for multi-vendor Ethernet networks.



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.