

Product Selection Guide

Managed Unmanaged

	Model	INS-840G	INS-8408A	INS-8415	INS-8008	INS-806	INS-802	INS-801
Interface	10/100Base-TX	-	-	-	8	8	8	5
	10/100/1000Base-T	16	8	5	-	-	-	-
	1000Base-SX/LX	-	-	1	-	-	2x100Base-FX	-
Hardware	Jumbo Frame (Bytes)	10K	9K	10K	1536	1518	1518	1536
	MAC Entries	8K	8K	8K	2K	2K	2K	1K
	Fan-less	Y	Y	Y	Y	Y	Y	Y
Power	Automatic MDI/MDI-X on RJ-45	Y	Y	Y	Y	Y	Y	Y
	Switching Fabric	32Gbps	16Gbps	12Gbps	1.6Gbps	1.6Gbps	2Gbps	1Gbps
	DC Power Input	12 ~ 60VDC	9 ~ 57VDC	20 ~ 57VDC	18 ~ 30VDC	9 ~ 48VDC	9 ~ 48VDC	9 ~ 48VDC
Mechanical & Environmental	Redundant Power	Y	Y	Y	N	Y	Y	Y
	Max Power Consumption	12W	5W	10W	4W	9W	12W	7W
	Dimensions (W x H x D)	50x162x120mm	50x116x100mm	31x136x105mm	110x73.8x23.4mm	50x162x120mm	50x162x120mm	50x120x100mm
Mechanical & Environmental	Weight	840g	480g	515g	145g	780g	780g	480g
	Operating Temperature	-40°C ~ 75°C	-40°C ~ 70°C	-20°C ~ 60°C		-40°C ~ 70°C		
	Storage Temperature				-40°C ~ 85°C			
Mechanical & Environmental	Operating Humidity				10% ~ 95% (no-condensing)			
	Storage Humidity				5% ~ 95% (no-condensing)			

Product Selection Guide / Unmanaged Industrial Media Converters

	Model	Serial Media Converters	Ethernet Media Converters	Ethernet Media Converters
Interface	Serial	IRF-631	IRF-629	IMC-661
	10/100/1000Base-T	RS-232	RS-422/485	-
	100-FX/1000-SX/LX	-	-	1 slot 100FX/GbE
Hardware	Jumbo Frame (Bytes)	1x100Base-FX	1x100Base-FX	1 slot 100FX/GbE
	MAC Entries	-	-	10K
	Monitoring-Management	-	-	LFS/LLB
Power	Automatic MDI/MDI-X on RJ-45	-	-	Y
	Dip Switch	Y	Y	Y
	DC Power Input	9 ~ 32VDC	9 ~ 32VDC	20 ~ 57VDC
Mechanical & Environmental	Redundant Power	N	N	Y
	Max Power Consumption	3W	3W	5.5W
	Dimensions (W x H x D)	90x32x110mm	90x32x110mm	50x120x100mm
Mechanical & Environmental	Weight	280g	280g	450g
	Operating Temperature	0°C ~ 50°C	-40°C ~ 80°C	-20°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C	-40°C ~ 85°C	-40°C ~ 85°C
Mechanical & Environmental	Operating Humidity			10% ~ 95% (no-condensing)
	Storage Humidity			5% ~ 95% (no-condensing)

Industrial Ethernet

Powering Next Generation

Automation Network Solutions



Product Selection Guide

Managed Unmanaged

	Model	INS-8648	INS-8624	INS-8528	INS-8615	INS-8605	INS-8648M	INS-8528M
Interface	10/100Base-TX	-	-	8	-	-	-	-
	10/100/1000Base-T	8	4	-	5	5	8	-
	1000Base-SX/LX	4	-	-	-	-	4	-
Hardware	Jumbo Frame (Bytes)	10K	10K	10K	10K	10K	10K	10K
	MAC Entries	16K	8K	16K	8K	8K	16K	16K
	Fan-less	Y	Y	Y	Y	Y	Y	Y
Power	Surge Protector	Y	Y	Y	Y	Y	Y	Y
	Automatic MDI/MDI-X on RJ-45	Y	Y	Y	Y	Y	Y	Y
	SFP Information	Y	Y	Y	Y	Y	Y	Y
Mechanical & Environmental	SFP DDM	Y	Y	Y	Y	Y	Y	Y
	Switching Fabric	24Gbps	12Gbps	5.6Gbps	12Gbps	10Gbps	24Gbps	5.6Gbps
	Code Redundancy	Y	-	Y	-	-	Y	Y
Network Function	Static Link Trunking	Y	Y	Y	Y	Y	Y	Y
	LACP Support	Y	Y	Y	-	-	Y	Y
	STP/RSTP/MSTP	Y	STP/RSTP	Y	STP/RSTP	STP/RSTP	STP/RSTP	Y
Network Function	Dual Homing	Y	Y	Y	Y	-	Y	Y
	Xpress Ring	Y	-	Y	-	-	Y	Y
	Loop Detection	Y	Y	Y	Y	Y	Y	Y
Traffic Management & QoS	Auto-recovery Timer	Y	Y	Y	Y	Y	Y	Y
	IGMP Snooping	Y	Y	Y	Y	Y	Y	Y
	MVR	Y	-	Y	-	-	Y	Y
Network Security	GARP/GVRP	Y	-	Y	-	-	Y	Y
	Tag-based VLAN	Y	Y	Y	Y	Y	Y	Y
	Port-based VLAN	Y	Y	Y	Y	Y	Y	Y
Network Management	Active VLAN Support	4094	256	4094	256	256	4094	4094
	Management VLAN	Y	Y	Y	Y	Y	Y	Y
	Priority Queue	8 hardware	8 hardware	8 hardware	8 hardware	8 hardware	8 hardware	8 hardware
Network Security	Traffic Classification	Y	Y	Y	Y	Y	Y	Y
	Network Storm Control	Y	Y	Y	Y	Y	Y	Y
	Traffic Monitor with auto-recovery	Y	Y	Y	Y	Y	Y	Y
Power	Rate Limiting	Y	Y	Y	Y	Y	Y	Y
	802.1x Support	Y	Y	Y	-	-	Y	Y
	Port Security	Y	Y	Y	Y	Y	Y	Y
Network Management	Access Control	Y	Y	Y	-	-	Y	Y
	Port Isolation	Y	Y	Y	Y	Y	Y	Y
	DHCP Snooping	Y	-	Y	-	-	Y	Y
Mechanical & Environmental	ARP Inspection	Y	-	Y	-	-	Y	Y
	SSH Support	Y	Y	Y	Y	Y	Y	Y
	SNMP	Y	Y	Y	Y	Y	Y	Y
Network Management	SNMP Trap	Y	Y	Y	Y	Y	Y	Y
	RMON Statistics	Y	Y	Y	Y	Y	Y	Y
	Mirroring	Y	Y	Y	Y	Y	Y	Y
Power	SNTP	Y	Y	Y	Y	Y	Y	Y
	LLDP	Y	Y	Y	Y	Y	Y	Y
	eMail Alarm	Y	Y	Y	Y	Y	Y	Y
Network Management	Local Console	Y	-	Y	-	-	Y	Y
	Telnet CLI	Y	Y	Y	Y	Y	Y	Y
	Web-based GUI	Y	Y	Y	Y	Y	Y	Y
Mechanical & Environmental	Firmware Upgradeable	Y	Y	Y	Y	Y	Y	Y
	Configuration Backup/ Restore	Y	Y	Y	Y	Y	Y	Y
	Alarm Warning	Y	Y	Y	Y	Y	Y	Y
Mechanical & Environmental	DC Power Input	12 ~ 60VDC	20 ~ 57VDC	12 ~ 60VDC	20 ~ 57VDC	20 ~ 57VDC	12 ~ 60VDC	12 ~ 60VDC
	Redundant Power	Y	Y	Y	Y	Y	Y	Y
	Max Power Consumption	18W	10W	12W	10W	10W	18W	12W
Mechanical & Environmental	Dimensions (W x H x D)	50x162x120mm	50x162x120mm	50x162x120mm	31x136x110mm	31x136x110mm	50x162x120mm	50x162x120mm
	Mounting	-	-	-	-	-	-	-
	Operating Temperature	-40°C ~ 75°C	-40°C ~ 85°C</					

Hardware Highlight



Robust Switch Performance

- Volktek industrial switches are built with field-hardened components and enclosed in rugged IP30 grade case to withstand harsh industrial environments such as constant vibration, heavy shocks, humidity and even extreme temperatures ranging from -40°C to 75°C.
- Volktek industrial switches are built with industrial grade design in order to ensure continuous operation of mission-critical applications even in tough and unstable industrial environments.

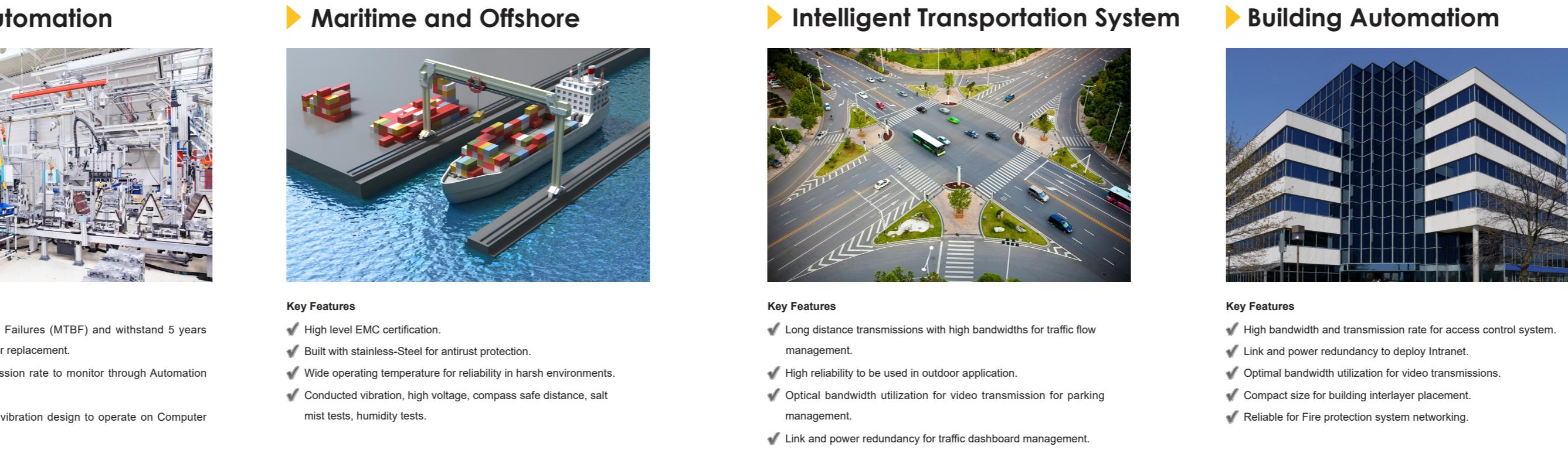
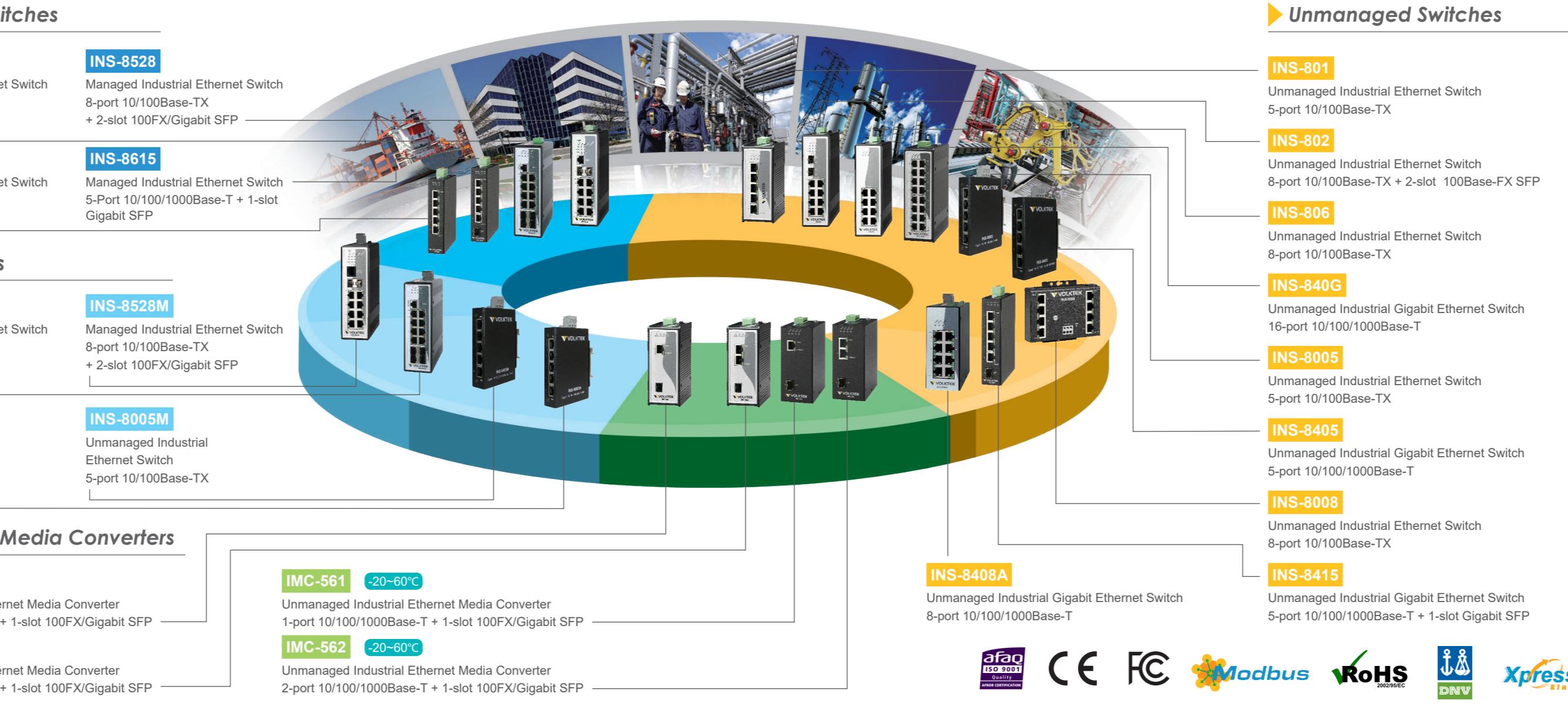
Industrial Grade EMC Protection Design

- Volktek industrial switches are built with robust protection features including surge protection and ESD protection to deliver increased level of immunity against industrial voltage transients.
- Volktek industrial switches comply with Industry standards EN61000-6-2 and EN61000-6-4 to withstand up to 8kV high ESD protection level and dual power inputs to provide a very high reliable system.

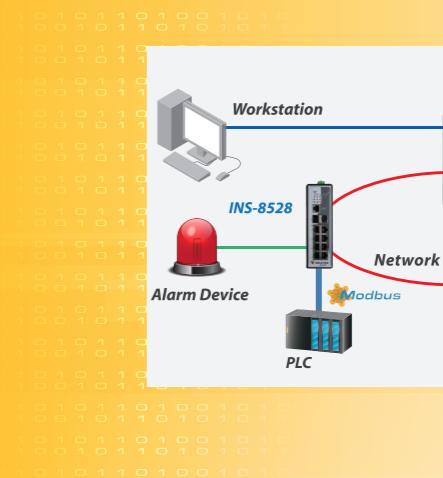


Marine Certifications Secure Communication Networks

- Volktek industrial switches are DNV and GL certified, helping ensure reliable operation in Marine and Offshore environments.
- Volktek Managed gigabit switch form a gigabit redundant backbone to handle critical communication between sonar system and the bridge.

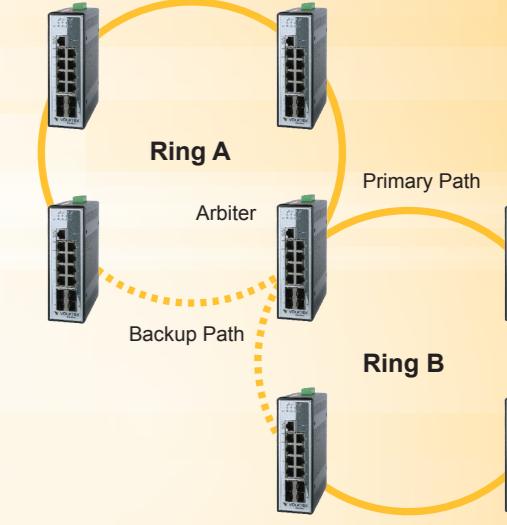


Software Highlight



Milliseconds Scale Network Recovery

- Volktek's industrial switches redundant ring architecture enhances network reliability and make them ideal for deploying secure automation network systems in tough outdoor industrial environments, such as ITS, maritime, mining, and manufacturing systems.
- New generation of Volktek Xpress Ring delivers a various choice of ring topologies, including Xpress Ring, Dual Xpress Ring, Dual Homing, in rapid recovery time (< 20ms @ 250 switches).



G.8032v2, Ethernet Ring Protection

- G.8032v2, Ethernet Ring Protection Switching (ERPS) protocol, provides protection for Ethernet traffic in a multiple ring topology with fast recovery time (less than 50ms).
- ERPS allows the switches to communicate with other industrial devices satisfying requirement of multiple rings for redundancy in mission critical applications.

