

DIREKTRONIK

❖ Overview

10-port 2.5G industrial L3 managed PoE switch that supports up to 8*10/100/1000/2.5GBASE-T PoE++ downlink ports, 2* 1000BASEX/10GBASE-R SFP+ ports. PoE ports support 802.3 af/at/bt standard, up to 90W per port.

It supports L3 management, such as RIP, OSPF, VRRP and PoE management.

It supports 6KV surge protection, 8KV contact/15KV air ESD protection.

It supports wall hanging, desktop and Din-rail installation, reliable and durable, and can be used in security network video monitoring, network engineering and other occasions.

❖ Picture



10 ports 2.5G L3 managed Industrial PoE Switch

❖ Features

- ❖ With 8*10/100/1000/2.5GBASE-T PoE++ downlink ports, 2*1000BASE-X/10GBASE-R SFP+ ports,
- ❖ Support L3 management, such as RIP, OSPF, VRRP and PoE management;
- ❖ 6KV surge protection, 8KV contact /15KV air ESD protection;
- ❖ Support working temperature -40℃~75℃.

❖ Specifications

Parameter	Specifications
Protection Level	IP40
Power supply	Powered by power adaptor
Range of voltage	DC 48~57V
Consumption	Self consumption<30W
PoE Budget	480W Max.
Downlink ports	8*10/100/1000/2.5GBase-T 90W PoE RJ45(IEEE 802.3af/at/bt)
Uplink ports	2*1000BASE-X/10GBASE-R
DI/DO	1*Relay out
Cable and distance	Use cat5e/6, 100m max
Standard	IEEE802.3, IEEE802.3u, IEEE802.3z
Switch fabric	80Gbps
Through put	59.52Mpps
Buffer	2Mb
MAC address table	16K
Indicator	Power: 2 *red ; SFP: green LEDs indicate Link/Act PoE: On RJ45 green LEDs indicate Link/Act, yellow LEDs indicate PoE
Protection	Surge: 6KV, standard: IEC61000-4-5 ESD: 8KV: contact/15KV: air, standard: IEC61000-4-2
Working temperature	-40℃~75℃
Storage temperature	-40℃~85℃
Humidity	0~95%(No condensation)

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Dimension(L×W×H)	165 mm×115 mm×50mm
Material	Aluminum
Colour	Black
Net-weight	1kg

Software:

System configuration	System date time	NTP
	User Management	User Management
	Safe Management	http
		SNMP
		telnet
		SSH
	Firmware file	Firmware file
Port configuration	Common	Admin Status
		Speed
	Flow control	Flow control
		Action
	Storm constrain	Broadcast
		Enable
		Interval
		Multicast
		Unicast
	Strom control	Broadcast(1~1024000kbps)
		Multicast(1~1024000kbps)
		DLF(1~1024000kbps)
	Rate limit	T/R
	Protected Port	Protected Port
	Learn Limit	MAC Address
	Port trunk	Trunk Group
		Member Port
		Trunk Method

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	Port Mirror	Mirror Port
		Mirrored Port
		Mirror Direction
	DHCP	DHCP client
		DHCP Snooping
	IP	IGMP Snooping
		MAC-bind
	IP-subnet-vlan	IP Address Mask
	LACP	Port Priority
		Timeout
	LLDP	Admin Status
		Enable
		Check-change-interval
		Management Address
		Tlv-enable
	Loopback detection	Enable
		Resume
		Resume Mode
		Shutdown Mode
	MAC VLAN	MAC Address
	VLAN-mapping	VLAN(1~4094)
	Voice VLAN	VLAN ID(1~4094)
		Qos Map-queue(0~7)
	Mvr-interface	Enable/Disable
	OAM	Enable
		Loopback
		Mode
	QinQ	Customer
		Outer-vid(1~4094)
		Tpid
		Uplink
	Udid	Aggressive

10 ports 2.5G L3 managed Industrial PoE Switch

		Port
MAC	MAC Binding	MAC Binding
	MAC Auto Binding	MAC Auto Binding
	MAC Filter	MAC Filter
	MAC Auto Filter	MAC Auto Filter
	Bridge	Acquire
		Address
		Ageing-time
		Unregistered
VLAN configuration	VLAN	4096
	VLAN Port	Mode
		Port Members
SNMP configuration	SNMP community	Community Name
		Read Only
		Read Write
	TRAP Target	SNMP Version
		Item
ACL configuration	Standard IP	Group Number
		Source IP
		Source Wildcard
		Math Data Packets
	Extended IP	Group Number
		Source IP
		Source Wildcard
		Destination IP
		Destination Wildcard
		Protocol Type
		Source Port
		Destination Port
		TCP Control Flag
		Math Data Packets
	MAC IP	Group Number

10 ports 2.5G L3 managed Industrial PoE Switch

		Source MAC
		Source MAC wildcard
		Source IP
		Source Wildcard
		Destination IP
		Destination Wildcard
		VLAN ID
		Math Data Packets
	MAC ARP	Group Number
		Sender MAC
		Sender MAC wildcard
		Sender IP
		Sender IP wildcard
		Math Data Packets
	ACL Reference	Ports
		All ACL Group
	Time-range	Name
		Cycle-time
		Utter-time
QoS configuration	QoS apply	Port
		QoS Type
		User Priority
	QoS schedule	Port
		QoS schedule mode
		Queue
		Weight of queue
	IP Address	VLAN ID(VID)
		IP Address
		DHCP Client
	ARP	Static ARP
		ARP Item
		Change Dynamic ARP into Static ARP

10 ports 2.5G L3 managed Industrial PoE Switch

		Aging time
		Target Address/Subnet prefix
AAA Configuration	Host Static Route	Next Hop
	Tacacs+	Taccas+
		Server IP
		Authentication Type
		Shared Secret
	Radius	Primary Server
		Option Server
		UDP Port
		Accounting
		Shared Key
		Vendor
		NAS Port
		NAS Port Type
		NAS Service Type
		Roaming
802.1x	802.1x	802.1x
		Reauthentication
		Reauthentication Period
		Quiet Period
		Tx-Period
		Server Timeout
		Supplicant Timeout
		Max Request
		Reauth Max
		Client Version
		Check Client
		Check Version
	802.1x Port	Port Number
		Port Mode

10 ports 2.5G L3 managed Industrial PoE Switch

		Support Host Number
		Guest VLAN
		Transmit Port
	802.1x User Auth-Info	port
STP Configuration	MSTP	MSTP
		Priority
		Portfast Bpdu-Filter
		Portfast Bpdu-Guard
		Forward-Time
		Hello-Time
		Errdisable-Timeout
		Errdisable-Timeout Interval
		Max-Age
		Max-Hops
		Cisco-Interoperability
	STP Port	Port
		Portfast
		Portfast bpdu-filter
		Portfast bpdu-guard
		Root Guard
		Link-Type
		Priority
		Path-Cost
		Force-Version
		Instance
Routing protocol	Static routing	Static routing
	Dynamic routing	RIP v1/v2、OSPF,VRRP

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IGMP Snooping Configuration	IGMP Snooping	IGMP Snooping
GMRP Configuration	GMRP Global	Global GMRP
	GMRP Ports	Port
		GMRP Status
	GMRP Registration	Fixed
		Forbidden
		Normal
EAPS Configuration	EAPS	EAPS Ring ID
		Mode
		Primary Port
		Secondary Port
		Control VLAN
		Protected VLANs
		Hello Time Interval
		Fail Time
		Data Span
		Extreme Interoperability
		Enable Status
RMON Configuration	Statistics	Port
		Index
		Owner
	History	Port
		Index
		Interval
		Request Buckets
		Owner
		History Data
		Index
	Alarm	Interval
		Variable
		Sample Type

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		Rising Threshold
		Failing Threshold
		Rising Event Index
		Failing Event Index
		Owner
	Event	Index
		Description
		Type
		Community
		Owner
Cluster Management	NDP	Port
		Port Enable
		Global Enable
		Hello-Time
		Aging-Time
	NTDP	Port
		Port Enable
		Global Enable
		Hops
		Interval-Time
		Hop-Delay
		Port-Delay
	Cluster	Cluster Enable
		Management-VLAN
		IP-Pool
		Handshake Time
		Handshake Hold-time
		Cluster Name
		Type
Log Information	Log system	Log Priority
	PD Query	Open/Close
		POE Port

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		POE Watchdog
		PD IP Address
		PD Query Interval
		PD Timeout Number
		PD Boot Time
DHCP	DHCP snooping	IP Address
		MAC Address
ERPS Configuration	ERPS	Domain ID
		Node-role
	ERPS Ring ID(1~32)	Enable/Disable
		Force Switch
		Manual Switch
		Guard Time
		Node Mode
		Hold-off-time
		Raps-send-time
		Raps-VLAN
		Revertive-behaviour
		Ring Mode
		RI-port
		Rpl-port
		Traffic VLAN
		Wtb Time
		Wtr Time
LACP Configuration	LACP	Max-active-link-number
		System-priority
LINE	Line	Vty
LLDP	LLDP	Global
		Hold-multiplier

10 ports 2.5G L3 managed Industrial PoE Switch

Loop-detection	Loopback-detection	Timer
		Detection-Time
		Protocol-safety
		Respond-packets
		Resume-Time
MVR	MVR	Enable/Disable
		Group
		VLAN
OAM	OAM	Errored-frame
		Errored-frame-period
		Errored-frame-seconds
Redundant-Port	Redundant-port(1~8)	Force-switch
		Primary-port
UDLD	UDLD	Enable
		Time
Protocol VLAN	Protocol VLAN	Ether-type
CFM	CFM	CC
		Enable
		Linktrace
		MA
		MD
		Mip-rule
		Service-instance(1~32767)

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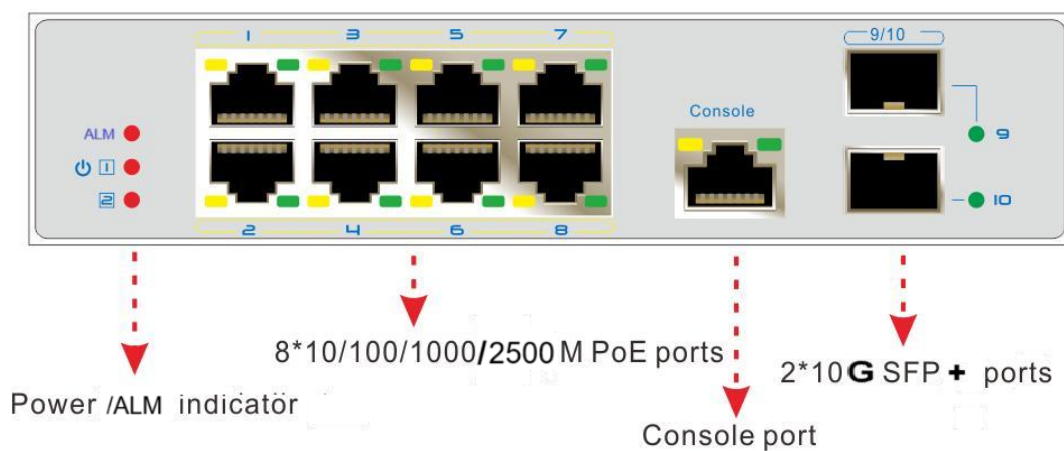
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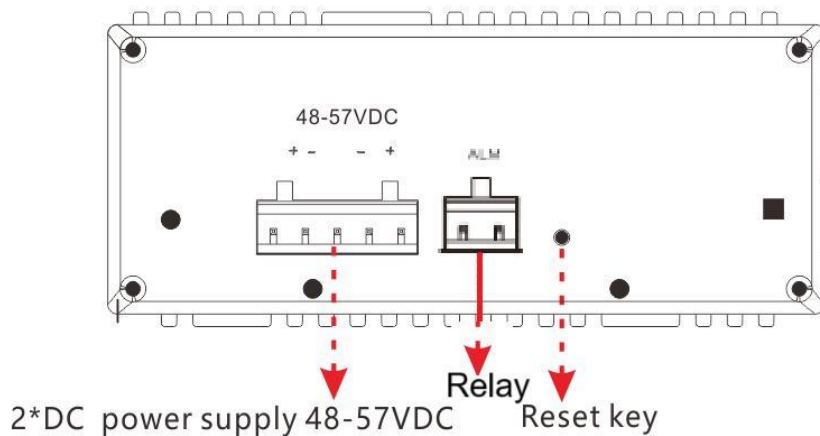
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❖ Panel diagram

● Front panel



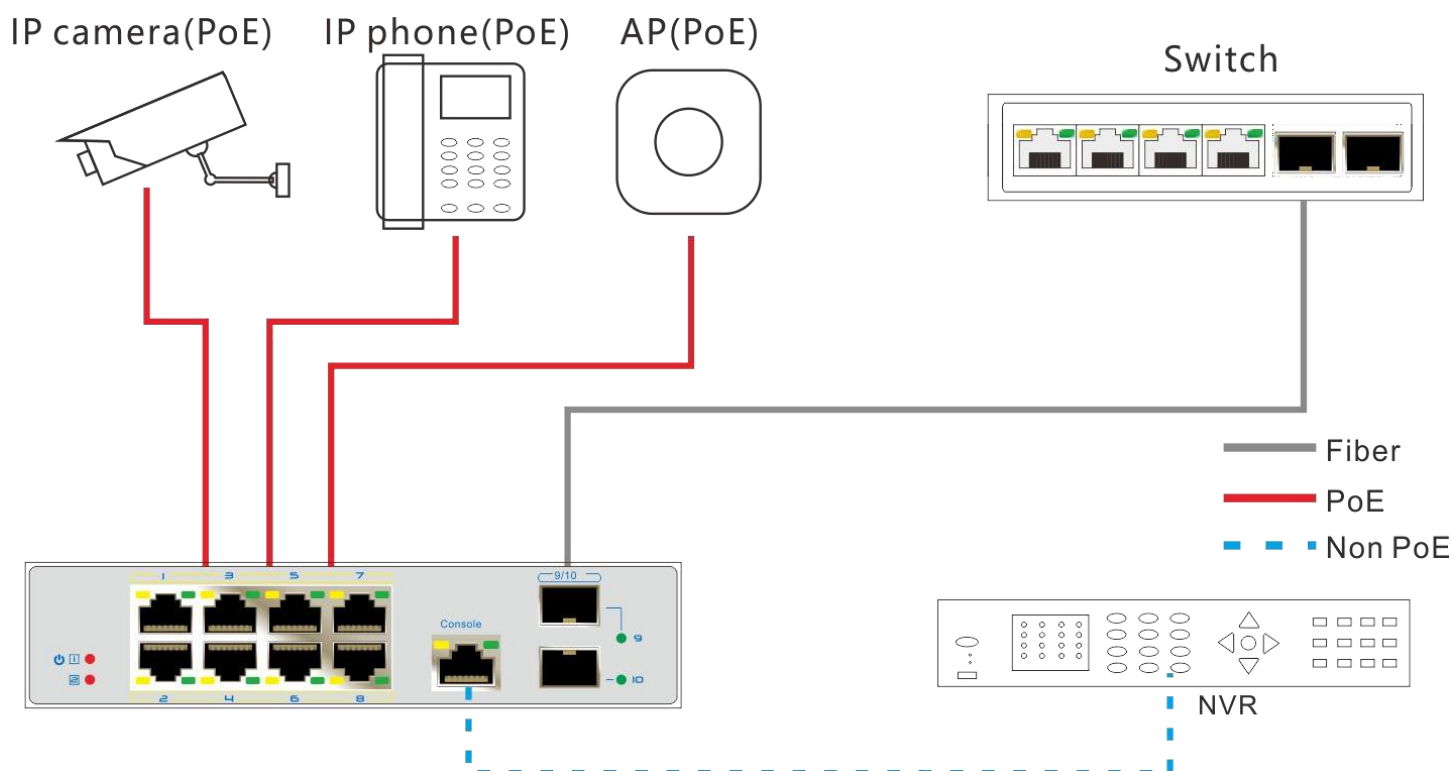
● Back panel



⚠ Attention 1: This product must be well grounded against lightning, please use better than 20# cable to connect the grounding terminal and ground.

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❖ Application



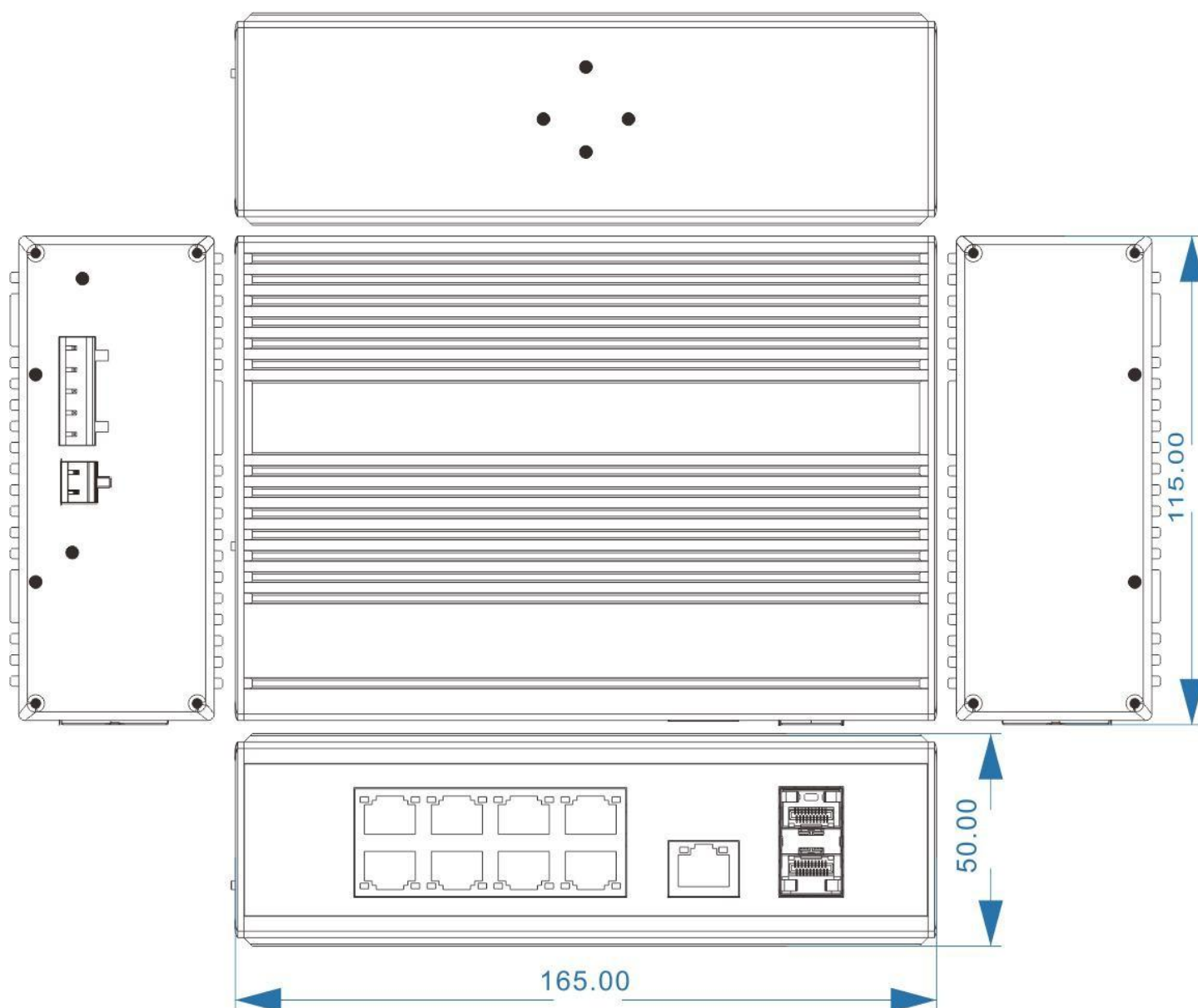
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❖ Dimensions



10 ports 2.5G L3 managed Industrial PoE Switch

❖ Order information

Model	Description
20123748	8*10/100/1000/2.5GBase-T 90W PoE Ports, 2*1000BASE-X/10GBASE-R SFP+ ports, L3 managed. 2*48~57V DC;Support L3 management, Support Alarm output 6KV surge protection, 8KV contact /15KV air ESD protection.

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