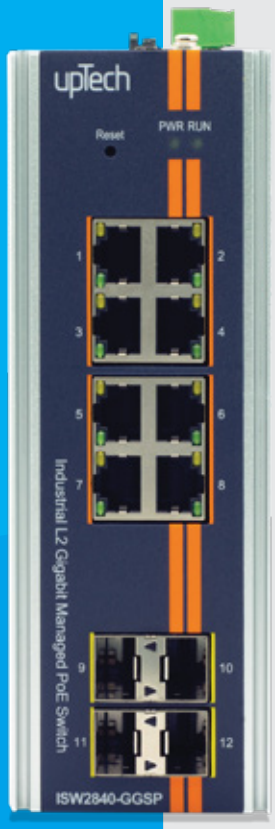
upTech

www.noktaelektronik.net

Model No. **ISW2820-GGSP**

8 Port Gigabit PoE 10/100/1000Mbps 2 Port 1G SFP

Industrial Layer 2 Managed PoE+ Ethernet Switch



Enjoy the vivid World!

8 Port
10/100/1000Mbps

2 Port
10/100/1000Mbps
Fiber SFP

85°C
-40°C

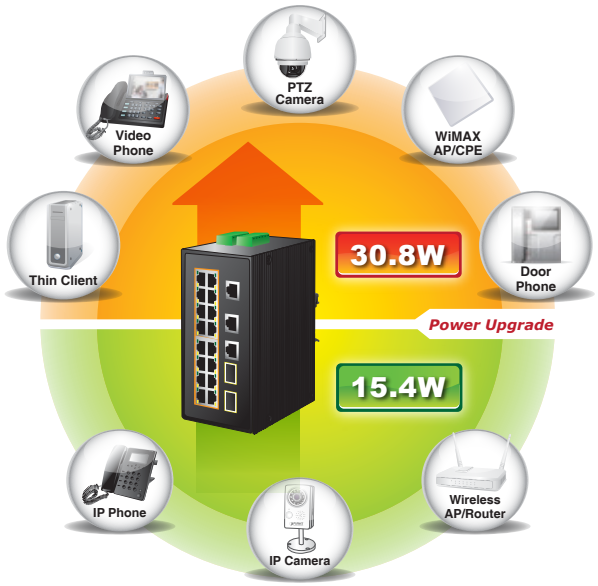
-40°C +85°C
IP40 Endüstriyel Dizayn

PRODUCT DESCRIPTION

ISW2820 series Industrial L2 Managed Switch adopt store-and-forward architecture, fanless and energy-saving design to provide reliable and stable operation in harsh industrial environments.
All the switches support 48~58 VDC dual power input and operate at temperature of -40°C ~ +85°C.
The PoE models compliance with IEEE 802.3af/at standard, 48~58 VDC dual power input. While using standard Cat5e/6/6a cables that carry Ethernet data, the switch can also provide power to a Powered Devices,such as VoIP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices.

Key Features

- ERPS (G.8032) Ring Technology
- Loop Protection
- PoE Management
- SFP fiber port support 1G/1.25G/155M
- 9.6K Jumbo Frame
- 48~58 VDC dual power input with polarity reverse protection
- 6 KV surge protection for Power and copper port
- 15 KV ESD protection
- IP40 enclosure
- Din-rail installation, Wall-mounted optional
- Low power consumption, lead-free process
- CE/FCC/RoHS compliance
- Support GBIC/SFP 1000 BASE LX, SX, ZX



Environmentally Hardened Design

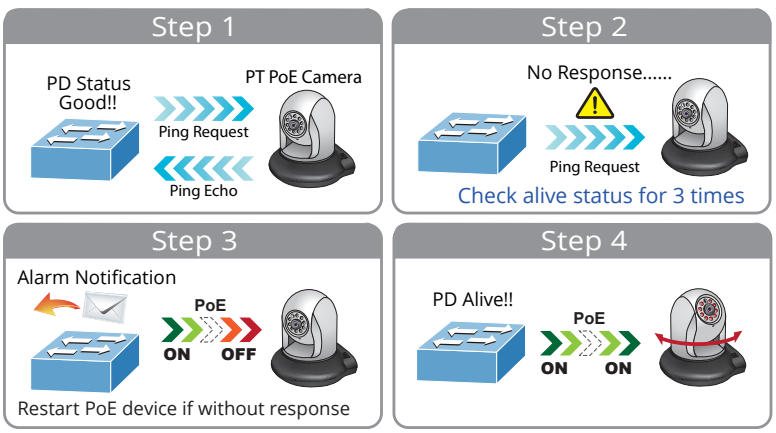
Uptech Industrial 8-Port Gigabit 802.3at/af PoE+ Switch, ISW2820-GGSP, is equipped with rugged IP40 metal case for stable operation in heavy Industrial demanding environments.

With IP40 industrial case protection, the ISW2820-GGSP provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curbside traffic control cabinets.

Being able to operate under wide temperature range from -40°C ~ +85°C degrees C, the ISW2820-GGSP can be placed in almost any difficult environment.

The ISW2820-GGSP, also allows either DIN rail or wall mounting for efficient use of cabinet space.

The ISW2820-GGSP supports redundant ring technology and features strong rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ERPS (G.8032) (Ethernet Ring Protection Switching) technology, Spanning Tree Protocol (802.1s MSTP), and redundant power supply system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments.
The ISW2820-GGSP also protects customer's industrial network connectivity with switching recovery capability that is used for implementing fault tolerant ring and mesh network architectures. If the Industrial network was interrupted accidentally, the fault recovery times could be less than 50ms to quickly bring the network back to normal operation.



TECHNICIAL SPECIFICATIONS

	ISW2820-GGSP
Standart	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z
	IEEE802.3x, IEEE802.1Q, IEEE802.1w,IEEE802.1s, IEEE802.1p
Processing Type	Store and Forward
Switch Fabric	55Gbps/non-blocking
Packet Forwarding Rate	14.88Mpps
MAC Address	8k
Buffer Space	4M
Jumbo Frame	9.6k
MTBF	500000 hours
CPU	416MHz
DRAM	1Gbits
Flash	128Mbits
	Switch Interface
Copper Ports	8*10/100/1000M Auto-negotiation, RJ45 Auto-Cross for MDI/MDIX Cat5e/Cat6/Cat6a, ≤100m
Fiber Ports	2*1G/1.25G/155M SFP slot type, OS1/OS2 ≤120km; OM1/OM2 ≤550m
Console Port	RS232 (RJ45)
Reset	Key Switch
Power Port	Terminal Block
LED Indicators	PWR, RUN, Speed, Link/Act
Relay	Normal Open (Alarm Relay)
	PoE Function (PoE Models Only)
Standart	IEEE802.3af/at
Pin Assignment	1/2(+), 3/6(-)
PoE Budget	≤240W
	Electrical Characteristics
Input Voltage	48-58 VDC
Input Current	4.9A @52 VDC
Power Consumption	≤250W (Fully loaded)
	Physical Characteristics
Dimensions	138x107x56mm
Enclosure	IP40 , Aluminum Alloy, Fanless
Installation	DIN-Rail, Wall-Mounted
	Environment
Working Temperature	-40 ˚C ~ +85 ˚C
Storage Temperature	-40 ˚C ~ +85 ˚C
Relative Humidity	10-95% (non-condensation)
	Software Feature
	L2 Feature
Port Features	IEEE 802.3x Flow Control
	Interface Counters
	Storm Control

TECHNICIAL SPECIFICATIONS

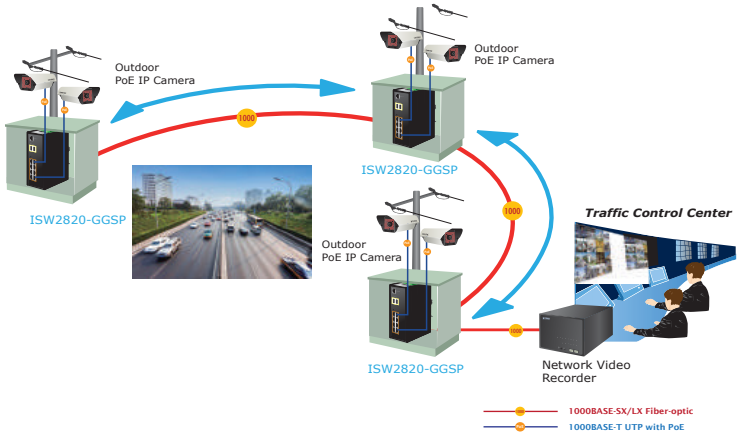
Link Aggregation	Dynamic Aggregation, LACP
	Static Aggregation
MAC-Address table	Dynamic MAC-Address
	Security MAC-Address
Mirror	Port-Based Mirror
	Vlan-Based
	IVL Mode
	Flow-Based
Spanning Tree	IEEE802.1d STP
	IEEE802.1w RSTP
	IEEE802.1s MSTP
QinQ	VLAN-Based QinQ
	1:1 VLAN Mapping
LLDP	LLDP
	LLDP-MED
Loop Protection	support
	Single ring, Sub-Ring,Multi-ring
ERPS (G.8032)	Load Balance
	Recovery Time < 50ms
VLAN	4094 VLAN
	MAC-based VLAN, Port-Based VLAN,Vlan Tagging/VlanTrunking,IPv6 Vlan
	GVRP
Protocol VLAN	Protocol-based VLAN
	IP Subnet-Based Vlan
Voice VLAN	Static entry
	LLDP-MED
Private VLAN	support
	support
IGMP Snooping	IGMP v1 Snooping
	IGMP v2 Snooping
	IGMP v3 Snooping
	Source Port Check, L2 ICMP
	IGMP Fast Leave
	IGMP Filter
	IGMP Proxy
MLD Snooping	MLD v1 Snooping
	MLD v2 Snooping

TECHNICIAL SPECIFICATIONS

MLD Snooping	Souce Port Check
	MLD Fast Leave
	MLD Filter
	MLD Proxy
	Static Mode
MVR	Dynamic Mode
	Fast Leave
	Security
ACL	ACL (IP Standard ACL), IPv4/IPv6
	MAC extend ACL
	IP extend ACL
	L2,L3,L4 Fields Match
QoS	Log, Redirection, Mirroring, Speed Limit
	QoS Class, Remarking
	SP, WRR Queue Schedulling ToS, Traffic Shaping
	Ingress Port-Based Rate-Limit
	Ingress Priority-Based Rate-Limit
	Egress Port-Based Rate-Limit
	Egress Queue-Based Rate-Limit
	Policy-Based QoS
	8 Queues Rer Port
	Port Access Control
	User Access Control
Dot1x	MAC-Address Access Control
	RADIUS Server
	TACACS+ Server
IP Source Guard	Dynamic Entry (From DHCP Snooping)
	Static Entry
ARP Inspection	Dynamic Entry (From DHCP Snooping)
	Static Entry
Port Security	Support IEEE 802.1x Port-Based Authentication Network Access Control
Access Management	Support
	Management
User Management	Password Protection
SNMP	SNMP v1/v2c/v3

TECHNICIAL SPECIFICATIONS

RMON	Statistics Group
	History Group
	Alarm Group
	Events Group
Web management	HTTP v1.1, HTTPS
Firmware Upgrade	Reversion Upgrade
IPv4/IPv6	support
PoE Management	Power Management Mode
	Class, Energy-Saving, Static
	LLDP-MED
CLI	support
RADIUS client	support
Syslog/Debug	support
Diagnosis	Ping (IPv4), Ping (IPv6)
	Trace route (IPv4)
	Trace route (IPv6)
	Application
NTP	NTP Client
DHCP	DHCPv4 Client, DHCPv6 Client
DHCP Snooping	DHCP snooping table
Telnet	Trust Port
	TFTP Server
TFTP	TFTP Client
SSH	SSH Server



Nokta Elektronik ve Bilişim Sistemleri SAN.TİC.A.Ş.
Perpa Ticaret Merkezi A Blok Kat 2
No.1 Şişli / İstanbul / Türkiye
Tel. : +90 850 333 02 08
e-posta : nokta@noktaelektronik.net
web : www.noktaelektronik.net

Model No. **ISW2820-GGSP**
AEEE Yönetmeliğine Uygundur

8 682560 519035
made in P.R.C.