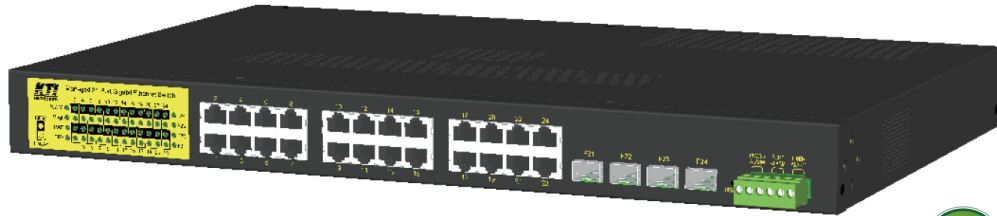# KGS-2461

Preliminary

EN 50121-4

Industrial Managed 24-Port L2/L3 Gigabit Ethernet Switches with PoE+ features

Product Highlights:

- Industrial rated
- PoE+ PSE features
- IPv4 and IPv6 support
- L2 & L3 switching function
- Redundant power input
- 1U 19″ rack mountable
- EN 50121-4 certified

AC Powered

DC Powered

Key Features:

- Provides 24 10/100/1000Mbps RJ-45 and four dual speed SFP slots (4 combo ports)
- Provides optional 24 802.3at compliant PoE+ PSE ports
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- The SFP slots support both 100BASE-X and 1000BASE-X SFP transceivers
- Supports SFP with Digital Diagnostic Monitoring (DDM) support
- Provides L2 switching at Gigabit full wire speed
- Provides L3 switching functions for IPv4/IPv6 Unicast routing and IPv4 Multicast routing
- Supports Green Ethernet power saving
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Jumbo frame support up to 10056 frame length
- Supports 802.1Q VLAN and diversified VLAN functions
- Provides QoS function
- Supports port bandwidth control for ingress and egress
- Supports packets storm control function for broadcast, unicast and multicast
- Supports LACP port link aggregation
- Supports MAC address learning, ageing and filtering control
- Provides port mirroring function
- Provides Optical Power Alarm (OPA) function
- Provides Auto Laser Shutdown (ALS) function
- 19″ rack mountable
- Both AC powered model and DC powered model are available for choice.
- Redundant DC power input
- Relay alarm output for port link faults, power failure, and fiber OPA alarm

Management Features:

- IPv4 & IPv6 support
- Supports console and in-band Web/Telnet/SSH/HTTPS/SNMP/CLI interfaces
- Supports IEEE 802.1d, 802.1w, 802.1s STP, RSTP, MSTP
- Provides IP Multicasting with IGMP & MLD Snooping function
- Supports DHCP client & server for dynamic IP configuration
- Supports DHCP option 82 relay
- Supports complete 802.1X authentication for access security
- Provides ACL filtering function
- Supports NTPv4 Client
- Provides SNMP v1/v2C/v3 agent, RMON and event trap function
- Supports LLDP
- Supports Configuration download and upload

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Ordering Informations:

KGS-2461-HP
KGS-2461 with PoE+ PSE feature,
Redundant DC power input

KGS-2461-S
Standard KGS-2461 with no PoE
feature, AC power input

CE FC

**FCC Part 15, Class A
CISPR 11 Class A**

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Specifications:

Standard	IEEE 802.3, 802.3ab, 802.3z, 802.3x, 802.3af, 802.3at, 802.1x, 802.1w, 802.1D, 802.1Q
Network Ports	20 10/100/1000Mbps copper ports plus 4 combo ports - 10/100/1000Mbps copper & dual-speed SFP
Copper Ports	Shielded RJ-45, 10/100/1000Mbps, auto-negotiation, auto-MDI/MDI-X support
SFP Slots	SFP connector for 100BASE-FX & 1000BASE-X SFP fiber transceiver modules, Auto-negotiation, Digital Diagnostics Monitoring (DDM) support
Network Cables	10/100/1000Mbps copper: Cat.5 or better up to 100 meters, 1000BASE-X: 62.5/125µm, 50/125µm MM fiber, 9/125µm SM fiber
MAC Addresses	Table with 16K entries
VLAN Support	4K at the same time
Power over Ethernet	Optional PSE function on all copper ports IEEE 802.3at (PoE+) compliant
LED Indication	Power status, Management status Port speed/link/activity/PoE status
AC Power Input	Interfaces: IEC320 receptacle Operating Input Voltages: 100 ~ 240VAC/0.75-0.38A
DC Power Input	Redundant screw type terminal blocks Voltage range: +40 ~ +72VDC for non-PoE applications Voltage range: +45 ~ +57VDC to support PoE PDs Voltage range: +51 ~ +57VDC to support PoE+ PDs Power: 770W max. including full PoE load on all ports Current: 18A max.@+48VDC Rated input wire: AWG10~12
Console Port	RS-232 RJ-45
Alarm Relay	Power fault alarm, Port link alarm, fiber alarm
Power Consumption	48W max. (Not including PoE)
Housing	Enclosed metal
Dimension	443 x 280 x 43 mm (WxDxH)
Mounting Support	19″ rack and wall mountable
Environment	Operating Temperature: -30ºC ~ +60ºC Storage Temperature: -40ºC ~ +85ºC Relative Humidity: 10% ~ 90% non-condensing
Approval	FCC Class A, VCCI Class A, CE mark Class A, EN60950-1 safety EN 61000-6-4 emission, EN 61000-3-2, EN 61000-3-3 EN61000-6-2 Immunity for industrial environment, IEC 60068-2-6 Vibration, EN 50121-4 Railway environment
MTBF	200K hours min.

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