



KSD-541, KSD-541-HP

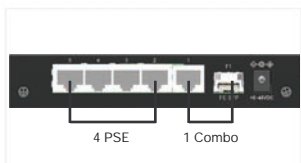


Industrial 5-Port L2 Fast Ethernet Switches with 1 SFP Slot and 4 PoE+ PSE Ports

Product Highlights:

- Compact switch
- SFP fiber options
- 802.3at PoE
- Industrial design

Ports



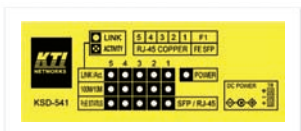
Panel Mounting



DIN-Rail Mounting



Top LED Display



Key Features:

- Provides 5 10/100Mbps RJ-45 and one 100Mbps SFP slot
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- Provides full wire speed forwarding
- Supports 802.3x flow control for full-duplex and backpressure for half-duplex
- Provides SFP for optional optical fiber connection
- Provides four power 802.3at PoE PSE ports
- Backward compatible with 802.3af PD
- Provides two types of power supply interfaces - Jack and terminal block
- Supports Stand-alone, Wall, Din-Rail, and Panel mounting
- Industrial-rated emission and immunity performance

Specifications:

| | |
|---------------------|--|
| Standard | IEEE 802.3, 802.u, 802.3x, 802.3af, 802.3at |
| Network Ports | 4 10/100Mbps Fast Ethernet copper ports 1 combo port - 10/100Mbps copper & SFP |
| Copper Port | Shielded RJ-45, 10/100Mbps, auto-negotiation, auto-MDI/MDI-X support |
| SFP | Fast Ethernet 100Base-FX compliant slot for standard SFP transceiver |
| Network Cables | 10/100Mbps copper: Cat.5 up to 100m, 100Base-FX: 62.5/125, 50/125 MM fiber, 9/125 SM fiber |
| Power over Ethernet | KSD-541-HP: IEEE 802.3at compliant, High power PoE PSE on Port 2 ~ Port 5 Power delivery 48V 30W max. at port output for a Cat.5 distance of 100 meters Backward compatible with 802.3af PD |
| MAC Addresses | Table with 1K entries |
| LED Indication | Display on both top and front panels Per unit: power, Per port: speed, link/activity & PoE status |
| DC Power Input | Screw terminal block: power +/- and PE contact DC jack: -D 6.3mm/+D 2.0mm Operating voltage range: +6 ~ +60VDC Voltage for PoE support: +44 ~ +57VDC |
| Power Consumption | 4W max. with no PoE support 125W max. for 4 PoE+ PSE max. output |
| Housing | Enclosed metal with no fan |
| Dimension | 144 x 104.5 x 26 mm (WxDxH) |
| Mounting Support | Wall, DIN-Rail, Panel Mounting (optional) |
| Environment | Operating Temperature: -30°C ~ +70°C Storage Temperature: -40°C ~ +85°C |



Power Terminal Block



EMI EMS Safety Environmental Tests:

| Test | Standard | Specifications |
|------------------------------|----------------------------------|---|
| FCC/EMI | FCC Rule Part 15 | Class A |
| CE/EMC/EMI | EN55022, CISPR 22 | Class A |
| CE/EMC/Harmonic | EN 61000-3-2 | < 75 W |
| CE/EMC/VFF | EN 61000-3-3 | Clause 5 |
| CE/EMC/EMS | EN 55024 | |
| ESD Test | IEC 61000-4-2 | Contact: +/-8kV Air: +/-16kV |
| RS Test | IEC 61000-4-3 | Strength: 10V/m |
| EFT/BURST | IEC 61000-4-4 | DC line: 1kV Signal lines: 2kV |
| Surge Immunity | IEC 61000-4-5 | DC Power line: 0.5kV |
| CS Test | IEC 61000-4-6 | 140dBuV Level 3 |
| Magnetic Field Imm. | IEC 61000-4-8 | 50Hz 40A/m |
| Voltage Dips Imm. | IEC 61000-4-11 | Interrupt 95%: C Dips 95%: B |
| Safety | EN 60950, IEC 60950 | |
| Dielectric Voltage | IEEE 802.3 | TP, 1500VAC/60sec. |
| Insulation Resistance | IEEE 802.3 | TP, 500VDC/10Mohm |
| Cold Test | IEC 68-2-1 Test Ad | -20°C, 96hrs |
| Dry Heat Test | IEC 68-2-2 Test Bd | +70°C 40%RH 96hrs |
| Damp Heat Test | IEC 68-2-3 | +50°C 90%RH 96hrs |
| Storage Test | IEC 68-2-48 | -20°C 96hrs +85°C 40%RH 96hrs |
| Vibration Test | IEC 68-2-6 | 5~30Hz, 0.5g Operating |
| NEMA TS2 Vibration test | NEMA TS2-2003 Proc. 2.2.8.3-4 | 5~30Hz, 0.5g xYz, 1hr/axis |
| NEMA TS2 Shock test | NEMA TS2-2003 Proc. 2.2.9 | Half-sine pulse 10g, 11ms, xYZ |
| NEMA TS2 Environment test | NEMA TS2-2003 Proc. 2.2.7.3-6 | Temp: -34~+74°C Humid: 0%~90% Power: +5V~+30V |



**FCC Part 15, Class A
CISPR 22 Class A**

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Approval

FCC Class A, CE mark Class A, EN60950-1/IEC60950-1 safety
NEMA TS2-2003 Environment tests

Ordering Informations:

KSD-541 Industrial L2 Fast Ethernet switch (No PoE support, No transceiver installed)

KSD-541-HP Industrial L2 Fast Ethernet switch with 802.3at PoE support (No transceiver installed)

Optional Accessories:

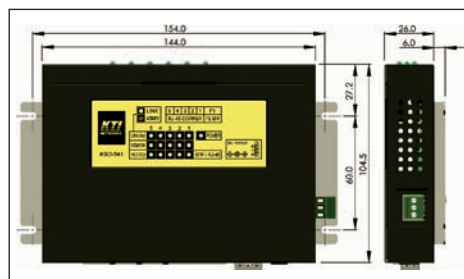
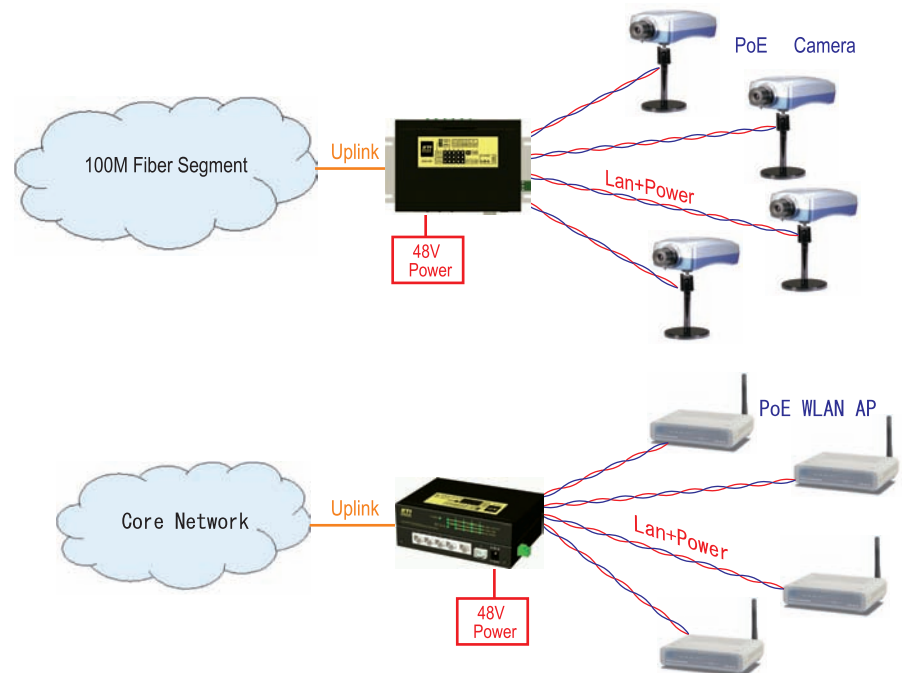
Panel mounting kit (bracket & screws) for KSD-541 and KGD-600

AC Power adapter: Input 100~240VAC, output 48VDC/24W, commercial rated
Input 100~240VAC, output 56VDC/65W, commercial rated

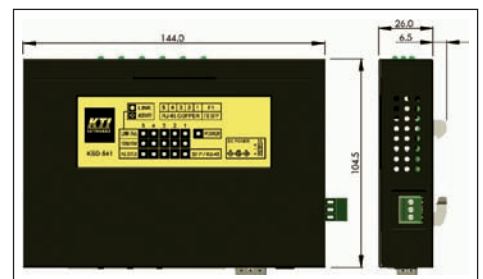
KTI quality SFP transceivers

Recommendation for Din-Rail power: Input 100-240VAC, Output 48VDC/120W/90W/75W/60W/40W

Applications:



Panel Dimension



DIN-Rail Dimension