

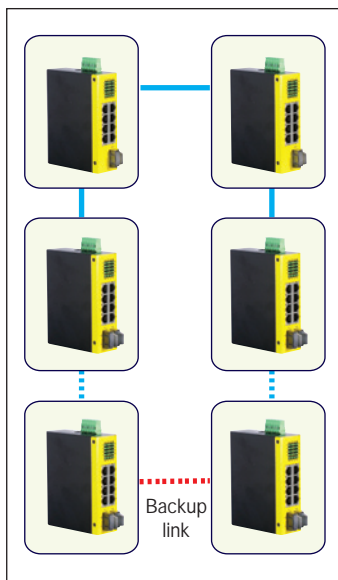


# KSD-800M



## Industrial Managed 8-Port L2 Fast Ethernet Switches with Fiber Connectivity

Redundant Ring Configuration



Panel Mounting Bracket KSD-8PB



### Benefits:

- Fast Ethernet switch with 8 10/100Mbps copper ports and optional fiber ports
- Wide operating temperature range for temperature critical environment
- Support DIN-Rail mounting and panel mounting
- Provide two power input types to meet more application needs
- Accept wide power input voltage range for application flexibility
- Special functions - VLAN, QoS, Port control
- Industrial-rated Emission and Immunity performance

### Key Features:

- 8 10/100M ports support auto-negotiation and auto-MDI/MDI-X configuration
- Port 7 and Port 8 provide either copper or fiber connection (model dependent)
- Provides wire speed store-and-forward switching
- Supports IEEE 802.3x flow control for full-duplex operation
- Supports Back-pressure flow control for half-duplex operation
- Provides Far End Fault function on the fiber ports
- Supports DHCP mode for IP configuration
- Provides port-based, 802.1Q tag-based VLAN function
- Provides port-based, 802.1p, DSCP QoS function
- SNMP, telnet, Web management support
- Supports industrial redundant ring configuration for quick recovery from cable fault or switch failure

### Specifications:

Standard	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX
Network Ports	8 RJ-45 10/100Mbps auto-negotiation, auto-MDI/MDI-X ports 2 100Mbps 100Base-FX ports (model dependent) (Port 7 and Port 8 provide dual connectivities, either copper or fiber.)
Network Cables	10Base-T: Cat. 3, 4, 5 or higher up to 100m 100Base-TX: Cat. 5 or higher up to 100m 100Base-FX: MMF 50/125µm 60/125µm, SMF 9/125µm
VLAN function	Port-based, IEEE 802.1Q Tag-based
QoS function	Port-based, 802.1p-based, DSCP-based, IP match-based
Management	SNMP MIB-II and private MIB, telnet, web, event traps
MAC Addresses	Table with 1K entries
LEDs	Per unit: Power, Management Per 10/100M port: Link/Activity, 100M, Duplex/Collision status Per fiber port slot: Link/Activity status status
Relay Output	Alarm: Power failure Interface: 2 terminal contacts Spec.: 30VDC/1A max. or 120VAC/0.5A max.
DC Power Input	Screwed terminator block: 2 pairs of +/- contacts DC jack: -D 6.3mm/+D 2.0mm Operating voltage range: +7 ~ +30VDC



### 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	+/-4KV
Surge Immunity	IEC 61000-4-5	Power: 4KV Signal: 0.5KV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50Hz 40A/m
Voltage Dips Imm.	IEC 61000-4-11	Interruption: C Dips: 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 60068-2-1 Ad	-20°C, 96hrs
Dry Heat Test	IEC 60068-2-2 Bd	+70°C, 40%RH, 96hrs
Damp Heat Test	IEC 60068-2-3 Ca	+60°C, 90%RH, 96hrs
Storage Test	IEC 60068-2-48	-20°C, 96hrs +85°C, 40%RH, 96hrs
Vibration Test	IEC 60068-2-64 Fh	10-200Hz, 0.1g <sup>2</sup> /Hz 200-500Hz, 0.03g <sup>2</sup> /Hz

### Ordering Information:

Model	FX Ports	Ref. Distance	Operating Temperature
-1T	FX8 ST MMF	2km	-20 ~ 70°C
-1C	FX8 SC MMF	2km	-20 ~ 70°C
-1SL2	FX8 SC SMF	20km	-20 ~ 70°C
-1W3515	Bi-Di SC SMF	15-20km	-20 ~ 70°C
-1W5315	Bi-Di SC SMF	15-20km	-20 ~ 70°C
-1W3520	Bi-Di SC SMF	20km	-20 ~ 70°C
-1W5320	Bi-Di SC SMF	20km	-20 ~ 70°C
-2T	FX7 ST MMF FX8 SC MMF	2km 2km	-20 ~ 70°C
-2C	FX7 SC MMF FX8 SC MMF	2km 2km	-20 ~ 70°C
-2SL2	FX7 SC SMF FX8 SC SMF	20km 20km	-20 ~ 70°C
-CSL2	FX7 SC MMF FX8 SC MMF	2km 20km	-20 ~ 70°C
-2W5320	FX7 Bi-Di SC SMF FX8 Bi-Di SC SMF	20km	-20 ~ 70°C
-2W3520	FX7 Bi-Di SC SMF FX8 Bi-Di SC SMF	20km	-20 ~ 70°C

Power Consumption	7.3W max.
Housing	Enclosed metal with no fan
Dimension	40 x 106 x 140 mm (WxDxH)
Mounting Support	DIN Rail mounting, Panel mounting
Environment	Operating Temperature: -20°C ~ 70°C, Storage Temperature: -20°C ~ 85°C Relative Humidity: 5% ~ 95% non-condensing
Approval	FCC Class A, CE mark Class A, EN60950-1 safety

### Fiber Optical Specifications:

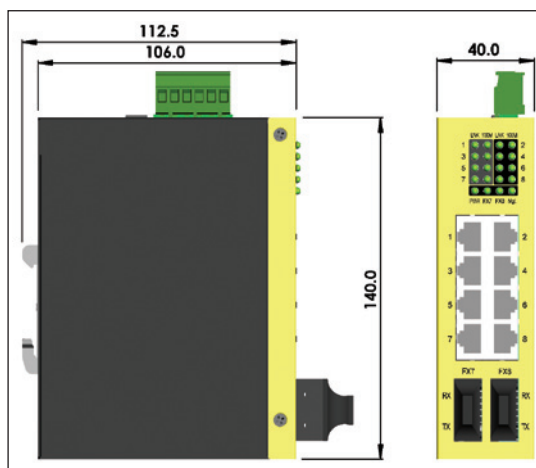
Model	FX & Cable	Wavelength	Tx Power*	Rx Sens.	Rx Max.
-1T	ST MMF	1310nm	-20 ~ -14dBm	-32dBm	-8dBm
-1C	SC MMF	1310nm	-20 ~ -14dBm	-31dBm	0dBm
-1SL2	SC SMF	1310nm	-15 ~ -8dBm	-30dBm	-7dBm
-1W3515	Bi-Di SC SMF	Tx 1310nm Rx 1550nm	-14 ~ -8dBm	-31dBm	0dBm
-1W5315	Bi-Di SC SMF	Tx 1550nm Rx 1310nm	-14 ~ -8dBm	-31dBm	0dBm
-1W3520	Bi-Di SC SMF	Tx 1310nm Rx 1550nm	-14 ~ -8dBm	-31dBm	0dBm
-1W5320	Bi-Di SC SMF	Tx 1550nm Rx 1310nm	-14 ~ -8dBm	-31dBm	0dBm
-2T	ST MMF ST MMF	1310nm 1310nm	-20 ~ -14dBm -20 ~ -14dBm	-32dBm -32dBm	-8dBm -8dBm
-2C	SC MMF SC MMF	1310nm 1310nm	-20 ~ -14dBm -20 ~ -14dBm	-31dBm -31dBm	0dBm 0dBm
-2SL2	SC SMF SC SMF	1310nm 1310nm	-15 ~ -8dBm -15 ~ -8dBm	-30dBm -30dBm	-7dBm -7dBm
-CSL2	SC MMF SC SMF	1310nm 1310nm	-20 ~ -14dBm -15 ~ -8dBm	-31dBm -30dBm	0dBm -7dBm
-2W3520	Bi-Di SC x2 SMF	Tx 1310nm Rx 1550nm	-14 ~ -8dBm	-31dBm	0dBm
-2W5320	Bi-Di SC x2 SMF	Tx 1550nm Rx 1310nm	-14 ~ -8dBm	-31dBm	0dBm

\*Data for 62.5/125µm MMF, 9 / 125µm SMF

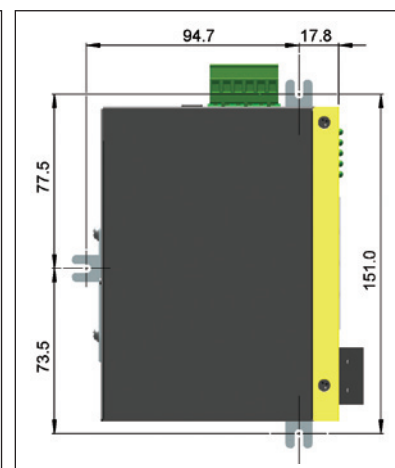


**Katron Technologies Inc.**  
15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-chih District, New Taipei City, Taiwan  
Tel: 886-2-2698-3878  
Fax: 886-2-2698-3873  
E-mail: kti@ktinet.com.tw  
URL: http://www.ktinet.com.tw

Trademarks: All brand names are trademarks or registered trademarks of their respective holders. This information is subject to change without prior notice.



DIN-Rail Dimension



Panel Dimension